



antaira[®]
making connectivity simple...

[Industrial](#)

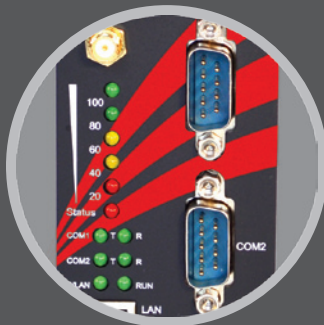
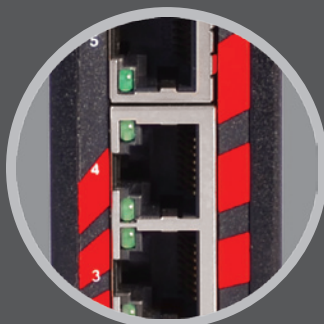
[Networking](#)

[Product](#)

[Catalog](#)

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Antaira Technologies' product catalog offers complete rugged networking application solutions for industrial grade products within various markets. This catalog contains product showcases, application notes, and product selection guides for industrial Ethernet switches, wireless devices, Ethernet media converters, and serial communication connectivity.



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Antaira Worldwide



About Antaira

Antaira Technologies is a leading developer and supplier of high-quality industrial networking and communication product solutions. Since 2005, Antaira has offered a full spectrum of product lines that feature reliable Ethernet infrastructures, extended temperature tolerance, and rugged enclosure designs. Our product lines range from industrial Ethernet switches, to, industrial wireless devices, Ethernet media converters, industrial serial communications. Our vast professional experience has allowed us to deploy a wide array of products worldwide in mission-critical applications across various markets, such as, automation, transportation, security, oil and gas, power/ utility and medical.

Mission Statement

As a leader and trusted partner in the industrial device networking field, Antaira is committed to providing quality products and value-added service to its customers and channel partners to create solutions that deliver a worldwide advancement for a wide array of applications.

Our Commitment

▶ Customer Service & Tech Support

Antaira's dedicated and patient team takes pride in delivering high-quality and prompt service to our customers. We go one step further when it comes to service , Antaira routes all incoming calls to a live representative and has all inquiries, answered as quickly as possible whether it be pre-sale, post-sale or technical. Antaira's technical support and RMA team have elite industry knowledge to ensure all issues are professionally and thoroughly resolved.



▶ Satisfaction Guarantee

At Antaira, we strive to meet our customers' needs at any cost. Every sale is backed by our 45-Day Satisfaction Guarantee. If for any reason our customers are unsatisfied with their experience or their expectations were not met, Antaira will provide a full refund within 45 days of the purchase date. Our friendly customer service representatives are available to help clarify any questions, comments or concerns regarding all transactions.



▶ 5-Year Warranty

All Antaira products are backed with a warranty of up to 5 years. We warrant products against defects in material and workmanship for up to 5 years from the date of purchase. This means that Antaira will happily repair or replace the defective products within warranty, provided the products were installed and used within specification. Antaira is committed and will stand behind all of its products assuring customers will receive the highest quality and most reliable products possible.



▶ RoHS Directive

Antaira recognizes its environmental responsibility as a manufacturer and is dedicated to preserving the environment for future generations. We make it a priority to ensure that all our products are environmentally friendly. At Antaira, we not only make sure that our products are RoHS 2.0 compliant, but also all of our packing materials used to ship our products are compliant as well.



Our Markets





▼ **Product Showcase**

- ▶ Industrial Ethernet Switches
- ▶ Industrial Wireless
- ▶ Ethernet Media Converters
- ▶ Industrial Serial Connectivity

Industrial Ethernet Switches



LNP-0802-24 Series

8-Port Industrial PoE/PoE+ Unmanaged Ethernet Switches

- Network Broadcast Storm Protection
 - 6*10/100Tx PoE/PoE+ Ports (30W/Port), and 2*100Fx Fiber
 - Supports SC/ST Connection: Multi-Mode 2Km; Single-Mode: 30Km
 - Protection: Surge – 2KV; ESD – 6KV
 - 12~36VDC Redundant Power Input, w/ Reverse Polarity Protection
- Pg. 38



LNx-500A/800A Series

5/8-Port Industrial Unmanaged Ethernet Switches



- IP30 Slim Aluminum Case Design
 - 5/8*10/100Tx RJ-45 Port Supports Auto MDI/MDI-X Function
 - Protection: Surge – 3KV; ESD – 4KV
 - 12~48VDC Redundant Power Input, w/ Reverse Polarity Protection
 - Certification: CE, FCC, UL Class 1 Div 2
- Pg. 27



LMx-0602 Series

6-Port Industrial Managed Ethernet Switch



- 4*10/100Tx + 2*100Fx Fiber (SC/ST) Multi-mode 2Km, or Single-Mode 30Km
 - Network Redundancy: STP/RSTP/MSTP and G.8032 Ring Protection <50ms
 - Network Management: SNMP, QoS, VLAN and IGMP Support
 - Configuration Via Web Console, Telnet or CLI
- Pg. 32



LMP-0601G-SFP-24

6-Port Industrial PoE+ Gigabit Managed Ethernet Switch



- 4*10/100/1000Tx (30W/Port) + 1*10/100/1000Tx + 1*100/1000Fx SFP Slot; 12~36VDC
 - Network Redundancy: STP/RSTP/MSTP and G.8032 Ring Protection <50ms
 - IEEE 802.3af/at PoE Utilizing Low Power Voltage Booster
 - Network Management: SNMP, QoS, VLAN and IGMP Support
- Pg. 46



LNP-2804G-SFP Series (Preliminary)

28-Port Industrial 1U Rackmount PoE/PoE+ Gigabit Unmanaged Ethernet Switches



- 24*10/100/1000Tx PoE/PoE+ Ports (30W/Port), and 4*100/1000 SFP Slots
 - Network Broadcast Storm Protection
 - Protection: Surge – 2KV; ESD – 6KV
 - 19" Rack Mountable 1U Size
 - IP40 Protection w/ Metal Enclosure
- Pg. 42



Industrial Wireless



APN-320N Series

Industrial 802.11 a/b/g/n Dual Radio Wireless Access Point/Client/Bridge/ Repeater

- Dual Independent Radios 2.4 GHz and 5 GHz
- IEEE 802.11a/b/g/n; Link Speed 300Mbps; MIMO Antenna
- Security Encryption WPA/WPA2/WEP/WAP-PSK
- Supports Access Point, Client, Bridge, Router and Repeater Modes
- Management Through HTTPS and SSH
Pg. 70



APN-310N Series

Industrial 802.11 a/b/g/n Wireless Access Point/Client/Bridge/ Repeater



- IEEE 802.11a/b/g/n; Link Speed 300Mbps; MIMO Antenna
- Security Encryption WPA/WPA2/WEP/WAP-PSK
- Selectable Access Point/Client/Bridge/Router/Repeater Mode
- Management Through HTTPS and SSH
- Supports Watchdog and Auto Reboot
Pg. 70

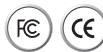


APR-4100 Series

Industrial 802.11 a/b/g/n Wireless Access Point/VPN/Router w/ LTE Cellular Modem



- IEEE 802.11a/b/g/n Wireless AP/VPN/Router
- Built in Cellular Modem LTE/HSPA+/GSM/EDGE
- Security Encryption WPA/WPA2/WEP/WAP-PSK Supports Hot Spots
- Supports VPN and NAT Settings
Pg. 73



APX-5700

Industrial IP67 Outdoor Gigabit 802.11 a/b/g/n Wireless Access Point/Client/Bridge/Repeater



- Dual Independent Radios 2.4 GHz and 5GHz
- IEEE 802.11a/b/g/n
- IP67 Outdoor Waterproof Housing Design
- Industrial MIMO Wireless Solution
- Security Encryption WPA/WPA2/WEP/WAP-PSK
Pg. 72



APX-120N5

Outdoor IP67 IEEE 802.11a/n Wireless Bridge (Pre-Configured Pair of Units) w/ Built-in 19dBi@5GHz Antenna



- Pre-Configured Point-to-Point Wireless Bridge
- IP67 Outdoor Waterproof All-in-One Design
- 5GHz IEEE 802.11 a/n Compliant
- PD (Powered Device) IEEE 802.3af
- Internal Antenna Signal Strength Indication by Web Console
Pg. 71



Ethernet Media Converters



IMC-1000A-SFP-T

10/100/1000Tx to 1000Lx/Sx Hardened Ethernet Media Converter W/ SFP Socket

- IEEE 802.3u and IEEE 802.3ab 10/100/1000Tx to 1000Lx/Sx
- Built in Link Loss Forwarding (LLF) and Link-Fault-Pass-Through (LFP)
- Jumbo Frame Capability Up to 9 Kbytes
- UL Class 1, Division 2 Certified
- Extended Operating Temp -40 to 80C (-40 to 176F)
Pg. 58



FCU-100 Series

10/100Tx to 100Fx Ethernet Media Converter



- SC/ST/SFP Connectors; Multi-Mode Up to 2Km; Single-Mode Up to 80Km
- Auto-Negotiation or Manual Mode Setting of Speed and Duplex Mode
- Store-and-Forward Switching Mechanism
- Supports Link Alarm
- 5-Year Warranty
Pg. 61



FCU-3002A-SFP

10/100/1000Tx to 100/1000Fx Dual Rate Ethernet Media Converter w/ SFP Slot



- IEEE 802.3u, 802.3ab, 802.3x and 802.3z
- Dual Rate Fiber
- Supports Jumbo Frames Up to 9 Kbytes
- Supports Flow Control and Link Alarm
- 5-Year Warranty
Pg. 63



FCU-RACK16-AC/DC

16-Slot 19" 2U Rackmount Media Converter Chassis



- 2U 19" Rackmount Chassis, Holds Up to 16 FCU or EVC Series Media Converters
- Redundant Hot Swappable Power Supply Module Capabilities
- Optional AC or DC Power Input
- Plug-and-Play Operation
Pg. 60



IVC-4011-T

IP30 Industrial Ethernet Extender over VDSL2



- 1* RJ11/BNC to 4* RJ45 10/100Tx Ethernet
- VDSL2 Standalone Transceiver For Bridge Model Applications
- All-in-One Design, Master / Slave Selectable via DIP Switch
- DMT (Discrete Multi-Tone) Line Coding
- Symmetric and Asymmetric Band Plans for Transmission Upstream and Downstream
Pg. 59



Industrial Serial Connectivity



STW-611C/612C Series

1/2-Port Industrial RS232/422/485 Wireless Serial Device Servers, w/Bridge Mode

- 1 or 2 RS232/422/485 Software Selectable Serial Ports
- 1*10/100Tx Ethernet Port
- IEEE 802.11b/g/n Compliant w/ WEP/WPA/WPA2, 802.1X Security
- Bridge Mode Support For Any Serial or Ethernet Device to Wi-Fi Network
- Wi-Fi Direct Technology (Point-to-Point) For Easy Setup [Pg. 79](#)



MSC-208C-SI

8-Port RS232/422/485 PCI Express Serial Card



- Low Profile Form Factor w/Optional Low Profile Bracket
- 8*RS232/422/485 Combo Serial Ports
- Supports 128-byte FIFO, Baud Rate Up to 921.6Kbps
- Supports 15KV ESD Surge and Isolation Protection
- OS Support: Windows 2000, XP, 2003, 2008, Vista, 7, 8, and Linux [Pg. 83](#)



STE-708/716 Series

8/16-Port Industrial RS232 or 422/485 Serial Device Servers



- 1U 19" Rack Mount Design, w/15KV ESD Protection
- 8/16*RS232 or 422/485, w/Optional Isolation models
- DUAL 100Mbps LAN Ports for Network or Data Redundancy Applications
- Operation Mode: Virtual COM, TCP, UDP, Tunneling
- Configurable via Built-in Web Server, Serial Console, or Telnet [Pg. 77](#)



STF-401C/501C/502C Series

1/2-Port Industrial RS232/422/485 Serial-to-Fiber Media Converters



- 1*RS232(DB9) or RS422/485 (Terminal Block)
- Available Models for Single or Dual 100Fm Fiber Ports
- Supports SC/ST Connector w/Multi-Mode 2Km or Single-Mode 30Km
- Supports Baud Rate Up to 1,024Kbps
- Supports 2.5KV ESD Surge and Isolation Protection [Pg. 80](#)



UTS-1110A

1Port Industrial RS232 Serial-to-USB Cable

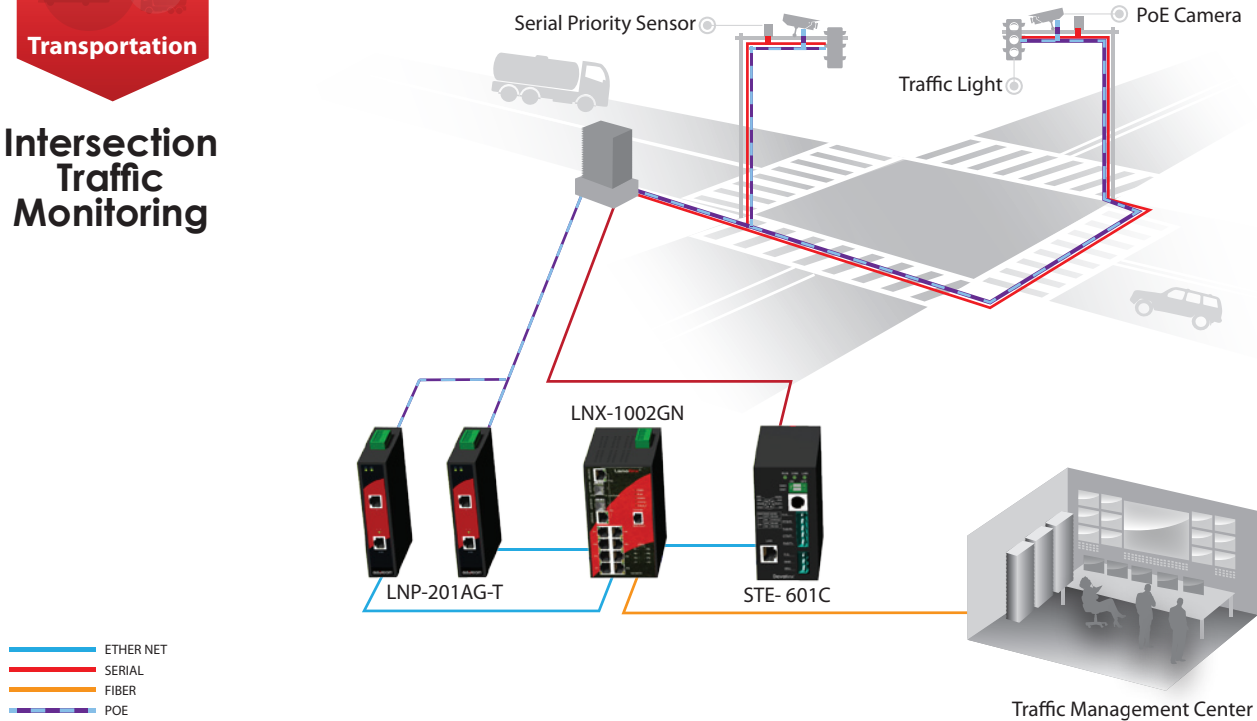


- Provides 1*RS232 Serial Port over USB Port
- Supports Baud Rate Up to 921.6Kbps
- LED Indicator for Tx/Rx Data Transmission Identification
- OS Support: Win98, Me, XP, CE, 2000, 2003, Vista, 7, 8, Linux, Mac OS [Pg. 84](#)





Intersection Traffic Monitoring



Application

Network and monitor city intersections

Application Requirements

- Ability to utilize real-time traffic monitoring
- Capable of using fiber to network different traffic controller equipment

Solution

LNX-1002GN-T: Supports extended operating temperature -40 to 75C for extreme ambient weather environment

- Provides self-healing redundant network solution
- Built-in network management functions: SNMP/IGMP/QoS/VLAN

STE-601C: Provides Real COM solution for serial equipment to Ethernet, no application software change

- Ability to expand connectivity and network solutions for legacy traffic controller and serial equipment, such as, serial sensors, traffic lights, and camera PTZ control

Key Products

LNP-201AG-T Industrial Gigabit PoE+ Injector



- 10/100/1000 PoE Injector
 - IEEE 802.3at Compliant
 - Supports Extended Operating Temperature: -40 to 75C
- Pg. 37

STE-601C Industrial Serial to Ethernet Device Server



- 1*RS232/422/485 Serial Port (Software Selectable)
 - Selectable RS232, RS422, or RS485 Serial Interface
 - Operation Modes: Virtual COM, TCP/UDP Tunneling
- Pg. 76

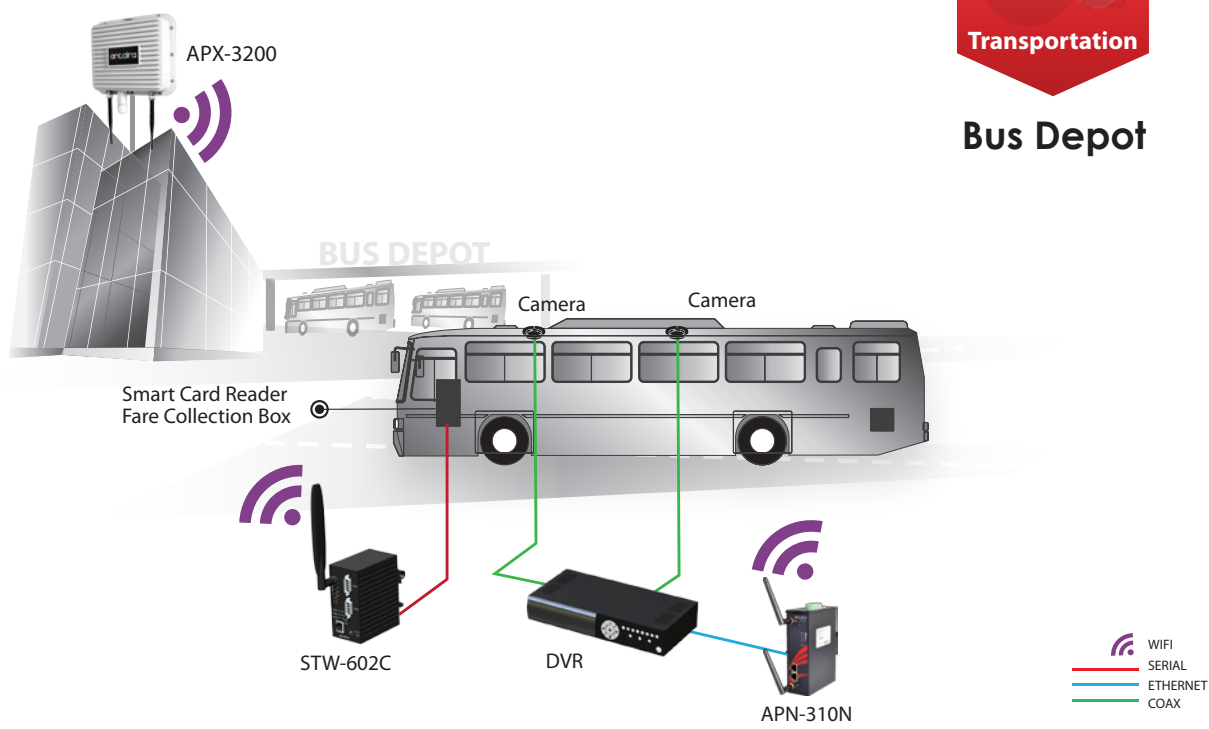
LNX-1002GN Industrial Managed Ethernet Switch



- 10-Port Full Management Ethernet Switch with 8*10/100Tx + 2*GigE Combo (RJ45/SFP) Ports
 - Ring Redundancy Function (<20 ms Recovery Time)
 - SNMP, Web Management, RMON Management IP Security
- Pg. 35



Bus Depot



Application

Wirelessly network a fleet of buses and seamlessly transmit information with a central location

Application Requirements

- Provide a wireless network with on-board equipment, such as, cameras, smart card readers, and DVR systems
- Provide wireless connectivity to transmit or download data from on-board equipment to the bus depot

Solution

STW-602C: Serial to wireless device networking solution provides ability for on-board serial smart card reader to download or update passenger fare data to the bus depot

APN-310N: Provides secure and reliable wireless network on-board

APX-3200: Seamlessly collect and update on-board system data to bus depot

Key Products

STW-602C Industrial Serial to IEEE 802.11b/g Wireless Device Server



- 2* RS232/422/485 Serial Ports (Software Selectable)
 - Supports UDP, TCP Server/Client Protocols for Virtual COM Mode, and Tunneling Mode Interface
 - 15 KV ESD Protection for Serial Ports
- Pg. 79**

APX-3200 Industrial IEEE 802.11b/g/n Outdoor Access Point



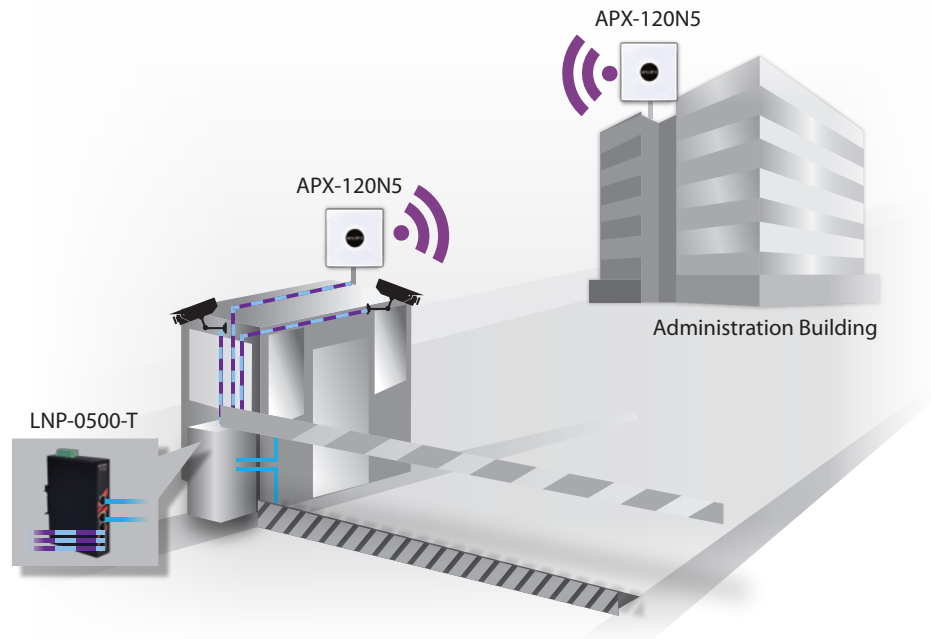
- Reliable Waterproof (IP67) Enclosure
 - WEP/WPA/WPA2/IEEE 802.1x Authentication Support
 - Spanning Tree and IGMP Snooping Protocol Support
- Pg. 71**

APN-310N Industrial Wireless Access Point



- Compliant w/ IEEE 802.11a/b/g/n
 - Supports Virtual AP (Multiple SSID)
 - Highly Secured Wireless Network (IEEE 802.11i Compliant)
- Pg. 70**

Security Gate Surveillance



Application

Wirelessly network an isolated security gate and surveillance system to the administration network

Application Requirements

- Build a long distance IEEE 802.11 wireless network between security gate and administration building
- Access to an existing Ethernet infrastructure
- Hardened wireless equipment with outdoor IP67 rating and wide operating temperature support

Solution

APX-120N5: Provides a pre-configured pair of units with a wireless bridge solution to stream security surveillance system data with the administration network.

LNP-0500-T: Provides network data transmission and a PoE power source to powered devices at the security gate

Key Products



LNP-0500-T Industrial PoE/PoE+ Unmanaged Ethernet Switch

- 5-Port 10/100Tx (PSE: 30W/Port) Fast Ethernet
 - High Protection: EFT w/ 2KV and ESD w/ 6KV
 - Supports Extended Operating Temperature -40 to 75C
- Pg. 37



APX-120N5 Outdoor IP67 IEEE 802.11a/n Pre-Configured Wireless Bridge

- Point-to-Point Pre-Configured Wireless Bridge
 - Built-in 5GHz 19dBi Dual-Polarization Antenna
 - Internal Antenna Signal Strength Indication by Web Console
- Pg. 71

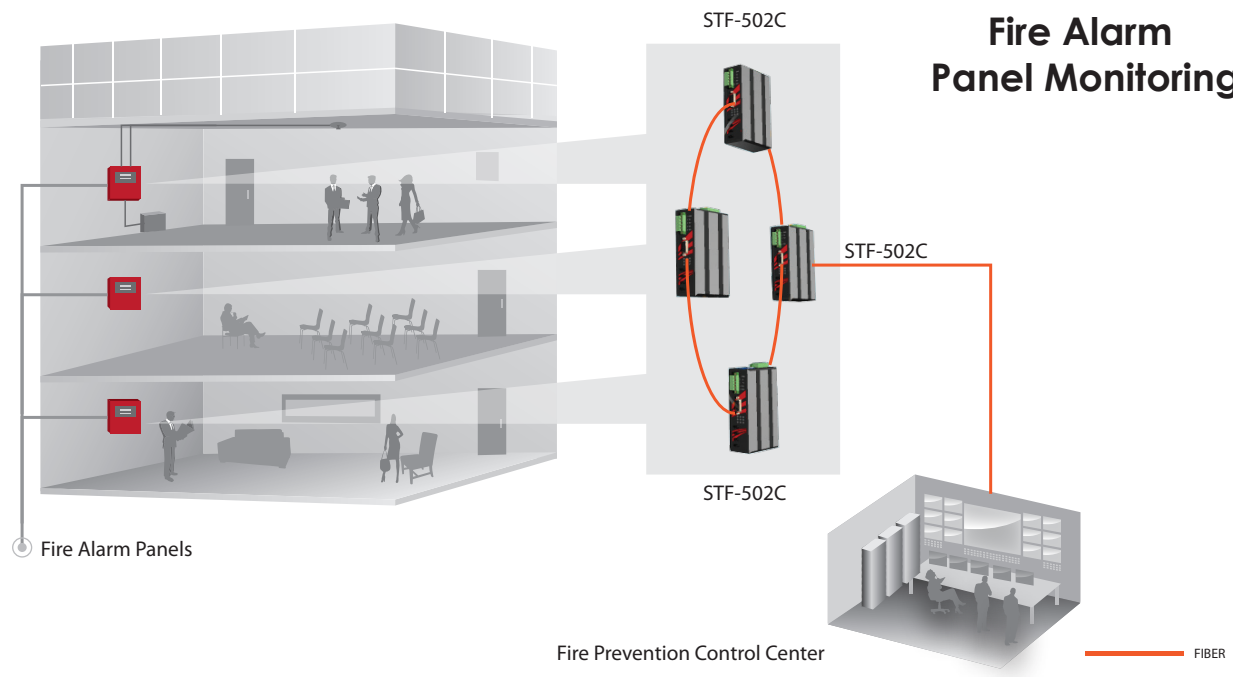


APX-110N5 Outdoor IP67 IEEE 802.11a/n Wireless AP/Client/Bridge

- All-in-One Single Unit Wireless Access Point, Client, or Bridge Support (Software Selectable)
 - Built-in 5GHz 19dBi Dual-Polarization Antenna
 - Internal Antenna Signal Strength Indication by Web Console
- Pg. 71


Security

Fire Alarm Panel Monitoring



Application

Allow a fire prevention control center real-time remote monitoring of a building's fire alarm system through a serial fiber network

Application Requirements

- Extend fire alarm code (serial) data transmission distance with a fiber optics solution
- Redundant serial fiber network within facility to prevent "0" data loss scenario
- Reliable industrial grade serial to fiber media converter to ensure 24/7 and long lasting operation

Solution

STF-502C Series: 1-port industrial RS232/422/485 serial to dual fiber media converter

- Supports serial baud rate up to 1024Kbps
- Secure serial data protection with built-in RS485 auto detection feature, 15KV ESD protection, and 2.5KV isolation protection
- Supports dual fiber connection with model options in multi-mode (2Km) or single-mode (30Km) solutions

Key Products



STF-502C Series 1-Port Industrial RS232/422/485 Serial to Dual Fiber Converters

- Supports Point-to-Point, Daisy Chain or Redundant Ring Connections
 - 2.5 KV Isolation Protection for Serial Signal
 - Enhanced Serial Baud Rate Up to 1024 Kbps
- Pg. 80



STF-401C Series 1-Port Industrial Compact RS232/422/485 Serial to Fiber Converters

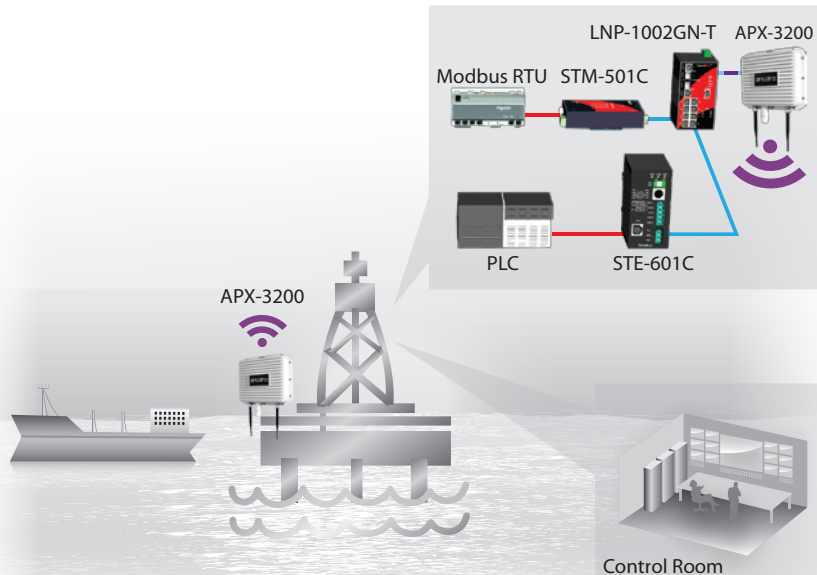
- Fan-Less and Din-Rail Design for Harsh Industrial Environment
 - Support SC or ST, Multi-Mode 2Km or Single-Mode 30Km
- Pg. 80



STF-501C Series 1-Port Industrial RS232/422/485 Serial to Fiber Converters w/ 2.5KV Isolation

- Redundant Dual Power Inputs (12-48VDC)
 - 10 Position Rotary Switch for RS422/485 Pull High/Low Transmission
 - Supports Relay Output for Power or Link Failure Warning
- Pg. 80

Offshore Platform



Application

Safely monitor and control devices on an offshore platform via a control room

Application Requirements

- Continuous monitoring of devices and the ability to support high bandwidths
- Wide operating temperature for reliability in harsh environments
- Wireless link across the oil platform

Solution

APX-3200: Eliminate hazardous cables by wirelessly linking a central control room and on-rig devices for data monitoring and transfer with a pair of bridge/router/access point units

STM-501C: Modbus gateway solution to connect Modbus RTU/ASCII/485 devices to Modbus TCP network

STE-601C: Provides more serial connectivity for standard serial PLCs to the network

LNP-1002GN-T: Provides redundant network infrastructure solution for all edge networking devices, plus provides a PoE power source to power the APX-3200

Key Products



STM-501C Modbus TCP to Serial RTU/ASCII Gateway

- Supports RS232, RS422, and RS485 Serial Interface
 - Supports LAN and WAN Communications
 - Supports up to 8 Modbus TCP Master to Modbus ASCII/RTU/485
- Pg. 78



LNP-1002GN-T Industrial PoE/PoE+ Gigabit Managed Ethernet Switch

- Ethernet Ring Redundancy Function (<20 ms Recovery Time)
 - 10-Port Full Management Ethernet Switch w/ 8*10/100Tx + 2*GigE Combo (RJ45/SFP)
 - Supports SNMP, Web Management, IGMP, QoS, VLAN
- Pg. 48



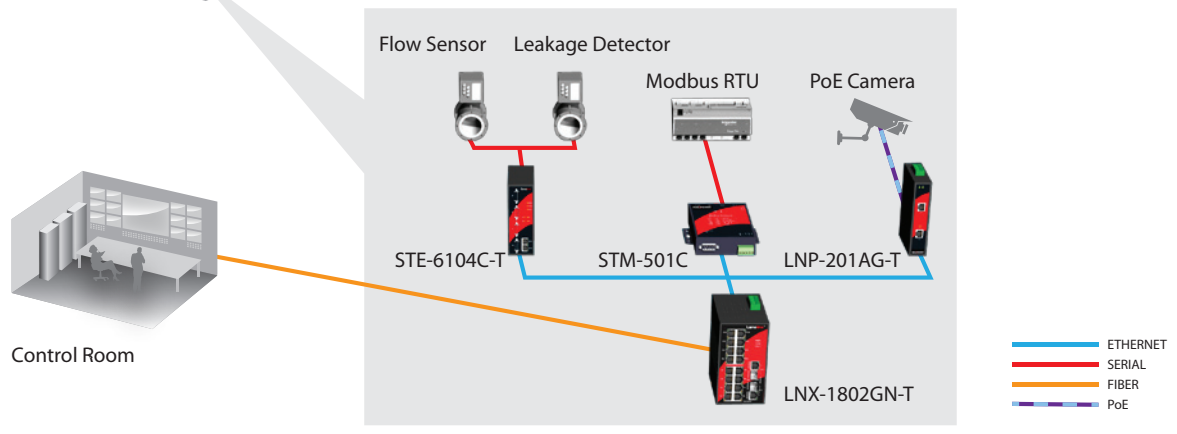
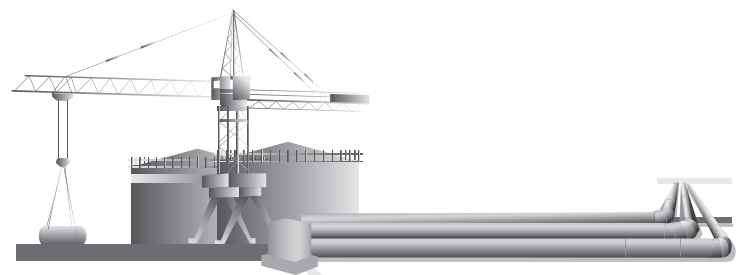
STE-601C Industrial Serial To Ethernet Device Server

- Supports Multiple Link Modes w/ TCP Server/Client, UDP, and Virtual COM
 - Selectable RS232, RS422, or RS485 Serial Interface
 - 15 KV ESD Protection for Serial Signals
- Pg. 76



Oil & Gas

Oil Pipeline Network

**Application**

Build a reliable and secure oil pipeline network capable of remote monitoring

Application Requirements

- Provide the capability to remote monitor, access and control field site equipment, and surveillance systems of an oil pipeline network from a control center
- Network equipment that is suitable for wide temperature ranges, high humidity, dust and even explosive environments
- Fiber optics for long distance transmission of data across miles

Solution**STE-6104C-T:** Provides serial connectivity to the network for multiple serial devices, such as serial sensors/detectors**STM-501C:** Provides a Modbus gateway solution for Modbus RTU/ASCII/485 device to Modbus TCP network**LNP-201AG-T:** Provides remote PoE power injection to power IP surveillance cameras and transmit data**LNX-1802GN-T:** Provides a redundant network infrastructure solution for all edge networking devices, plus high density port count and wide gigabit bandwidths**Key Products****STE-6104C-T****Industrial Serial To Ethernet Device Server**

- 4-Port RS232/RS422/RS485, Baud Rate Up to 921 Kbps
 - RAW TCP Server/TCP Client/UDP/Virtual COM/Tunneling Modes
 - Built-in Web Server/Serial Console/Telnet/ Windows-Based Utility
- Pg. 77

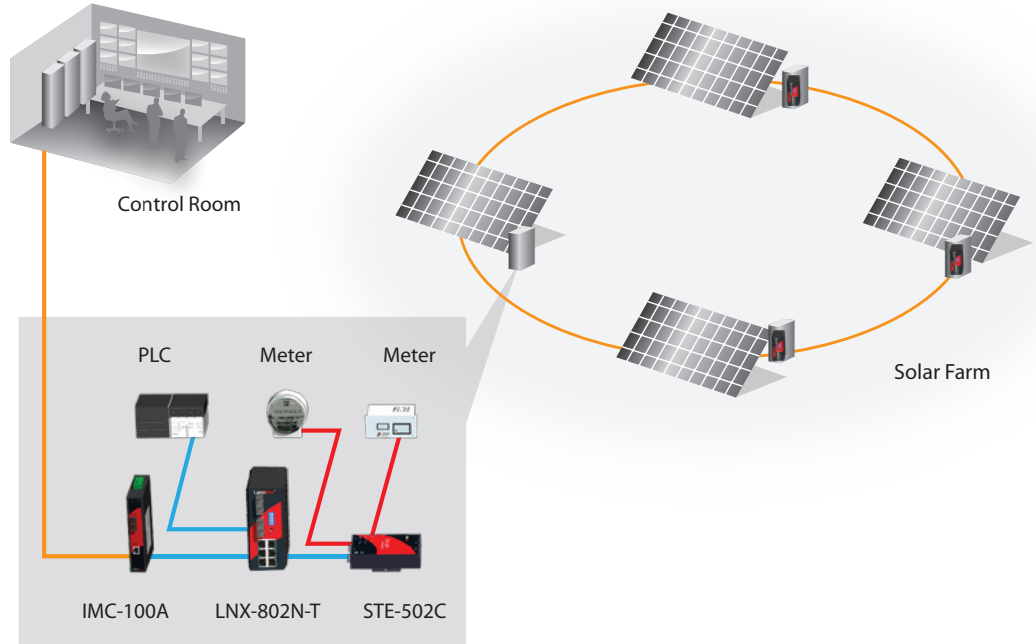
LNX-1802GN-T**Industrial Gigabit Managed Ethernet Switch**

- 18-Port Full Management Ethernet Switch w/ 16*10/100Tx + 2*GigE Combo (RJ45/SFP)
 - Ethernet Ring Redundancy Function (<20 ms Recovery Time)
 - Supports SNMP, Web Management, IGMP, QoS, VLAN; CE, FCC, UL, C1D2
- Pg. 36

LNP-201AG-T**Industrial Gigabit PoE+ Injector**

- 10/100/1000 PoE Injector
 - IEEE 802.3at Compliant
 - Power Input 24/48 VDC
- Pg. 37

Solar Power Renewable Energy



Application

Remote monitor diagnostics and maintain a solar power plant from a central location

Application Requirements

- Provide stable and no data loss transmissions over long distances
- Improve operational management
- Provide a real-time data access network in order to closely monitor uptime and power output from remote locations

Solution

LNX-802N-T: A full management industrial Ethernet switch with wide operating temperature support, provides a self-healing redundant ring network infrastructure for each solar panel system for real time data transmission

STE-502C: Provides serial connectivity for serial based power invertors and meters on the network

IMC-100A: Extends solar farm network uplink distance capability with a fiber optic connectivity solution to a remote control center

Key Products

LNX-802N-T Industrial Managed Ethernet Switch



- 8-Port Full Managed Industrial Ethernet Switch w/ 6*10/100Tx + 2*100Fx Fiber
 - Ethernet Ring Redundancy Function (<20 ms Recovery Time)
 - Supports SNMP, Web Management, IGMP, QoS, VLAN
- Pg. 33

IMC-100A Industrial Media Converter



- Built-in Link Loss Forwarding (LLF) and Link-Fault-Pass-Through (LFP)
 - Overload Current Protection
 - UL Class I, Division 2 Certified
- Pg. 58

STE-502C Serial To Ethernet Device Server

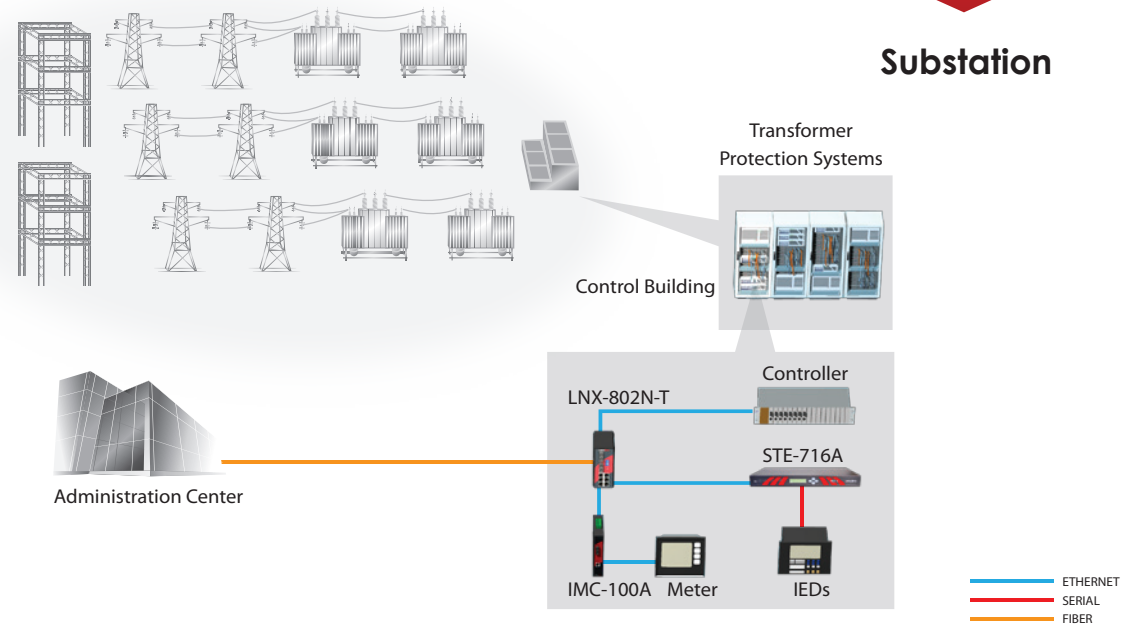


- 15 KV ESD Protection for Serial Signals
 - Supports Multiple Link Mode w/ TCP Server/Client, UDP, and Virtual COM Mode
 - Configurable via Built-in Web Server, Serial Console, or Telnet
- Pg. 76



Power/Utility

Substation



Application

Remote monitoring, access, and control of bay level equipment within a power substation

Requirements

- Support real-time seamless data transmission
- Ability to overcome harsh environments found in substation applications
- A hardened and reliable network infrastructure
- Ability to bring legacy serial IEDs, meters from transformer protection systems to the network

Solution

STE-716A: Provides a multiple port serial to Ethernet connectivity solution to seamlessly transfer data from any serial IED or meter equipment from bay level to the Ethernet network

IMC-100A-M-T: Provides fiber link connectivity option for Ethernet based equipment from bay level to the network

LNX-802N-T: Provides full management and self-healing redundant network infrastructure solution within the substation, and fiber optic uplink capability from the control building within the substation to the administration center

Key Products

STE-716A Industrial Serial to Ethernet Device Server



- Supports 16*RS232 Software Selectable Serial Ports, and DUAL LAN (10/100Tx) Ports for Network or Data Redundancy Solutions
 - Provides Easy-to-Use Web UI, Window Utility for Configuration
 - Operation Modes: Virtual COM, TCP/UDP Server/Client, and Tunneling
- [Pg. 77](#)

LNX-802N-T Industrial Managed Ethernet Switch



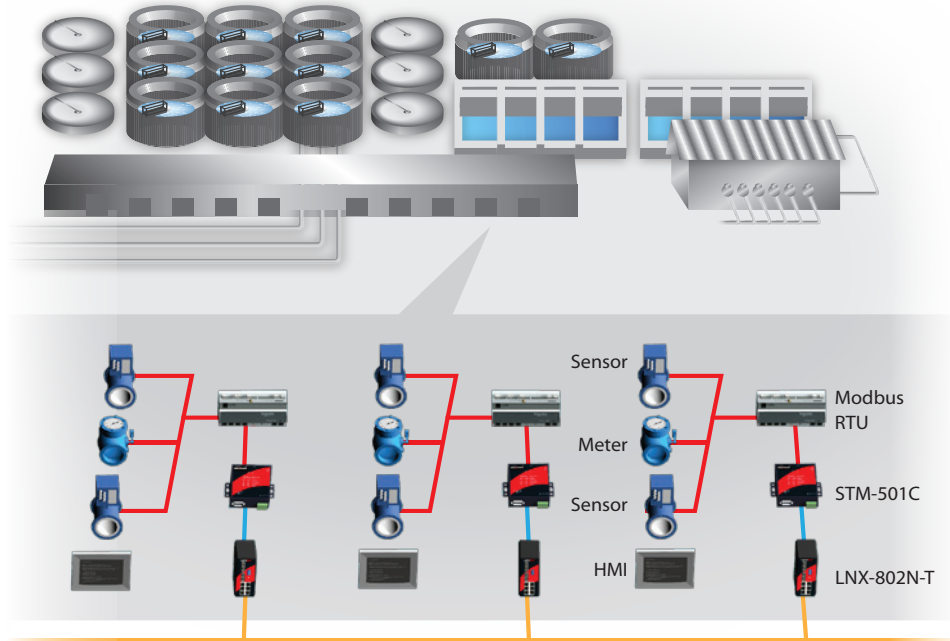
- Full Management Ethernet Switch W/ 6*10/100Tx + 2*100Fx Fiber Ports
 - Supports STP/RSTP, and Ring Redundancy Network Function <20ms
 - Support SNMP, Web Console, RMON, VLAN, IGMP, QoS, Event Handling
- [Pg. 33](#)

IMC-100A Industrial Ethernet Media Converter



- Built-in Link Loss Forwarding (LLF) and Link-Fault-Pass-Through (LFP)
 - Overload Current Protection
 - UL Class I, Division 2 Certified
- [Pg. 58](#)

Water/Wastewater



Application

Provide a self-healing redundant network and remote monitoring for a water/wastewater treatment plant SCADA system

Application Requirements

- Ability to network and transmit data from all legacy field site measurement equipment over long distances using fiber optic connectivity
- Wide area redundant network to maintain continuous operations and data transmission within the plant
- Equipment that endures harsh environments

Solution

LNX-802N-T: Full managed industrial Ethernet switch with a wide temperature range to ensure high levels of data transmission and guarantee a redundant network with a fast network recovery time <20ms

STM-501C: Provides a protocol conversion solution for any legacy Modbus ASCII/RTU/485 device's data transmission to a Modbus TCP network

Key Products

LNX-802N-T Industrial Managed Ethernet Switch



- Full Management Industrial Ethernet Switch w/ 6*10/100Tx + 2*100Fx Fiber Ports
 - Supports STP/RSTP, and Ring Redundancy Function (<20ms Recovery Time)
 - Supports SNMP, Web Console, RMON, VLAN, IGMP, QoS, Event Handling
- Pg. 33

STM-501C Modbus TCP to Serial RTU/ASCII Gateway

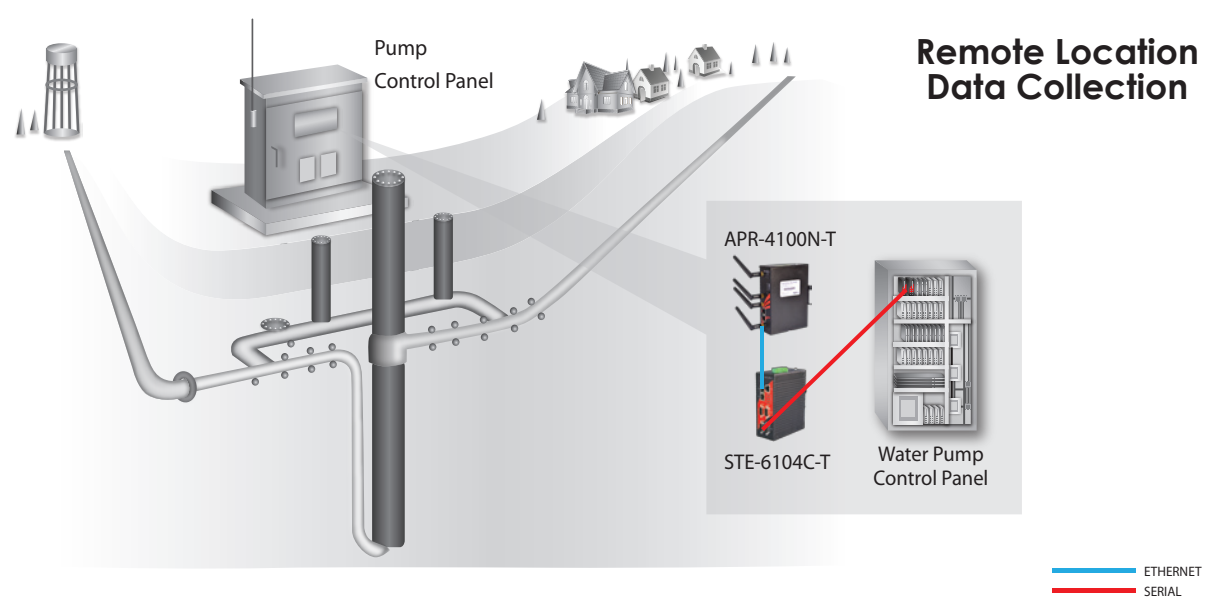


- 1-Port RS232/422/485 Modbus ASCII/RTU Conversion to Modbus TCP
 - Supports up to 8 Modbus TCP Master Devices to 31 Modbus RTU/ASCII/485 Slave Devices
 - Supports a Modbus RTU/ASCII/485 Master Device to 8 Modbus TCP Slave Devices
- Pg. 78

STE-6104C-T Industrial Serial to Ethernet Device Server



- 4-Port RS232/RS422/RS485, Baud Rate Up to 921 Kbps
 - Supports DUAL LAN (10/100Tx) Ports for Network or Data Redundancy Solutions
 - Operation Modes: Virtual COM, TCP/UDP Server/Client, Tunneling
- Pg. 77



Remote Location Data Collection

Application

Provide reliable and secure monitoring with a remote pump station through a cellular wireless network.

Application Requirements

- Real time "Serial-to-Ethernet" connectivity solution for legacy serial-based devices
- Able to adapt cellular wireless network to overcome long distance concern
- Live camera monitoring for a remote location

Solution

STE-6104C-T: Provides serial connectivity to the network for multiple serial devices, such as serial sensors and detectors

APR-4100N-T: Provide accessibility to a remote location through the built-in cellular modem function to monitor and manage equipment through the cellular network

LNP-0500-24: Supports low power voltage input (12~36VDC) and each port provides a PoE power source up to 30 watts to power any powered devices, such as security cameras

Key Products



APR-4100N-T Industrial VPN/Router w/ Cellular Modem Connectivity

- Built-in Cellular Modem w/ LTE, HSPA+, GSM, GPRS and EDGE Support
- Supports VPN Setting Such As: IPsec, Open VPN, PPTP, L2TP
- Supports QoS Function

Pg. 73



STE-6104C-T Industrial Serial To Ethernet Device Server

- 4-Port RS232/RS422/RS485, Baud Rate Up to 921 Kbps
- Operation Modes: Virtual COM, TCP/UDP Server/Client, Tunneling
- Built-in Web Server/Serial Console/Telnet/Windows-Based Utility

Pg. 77



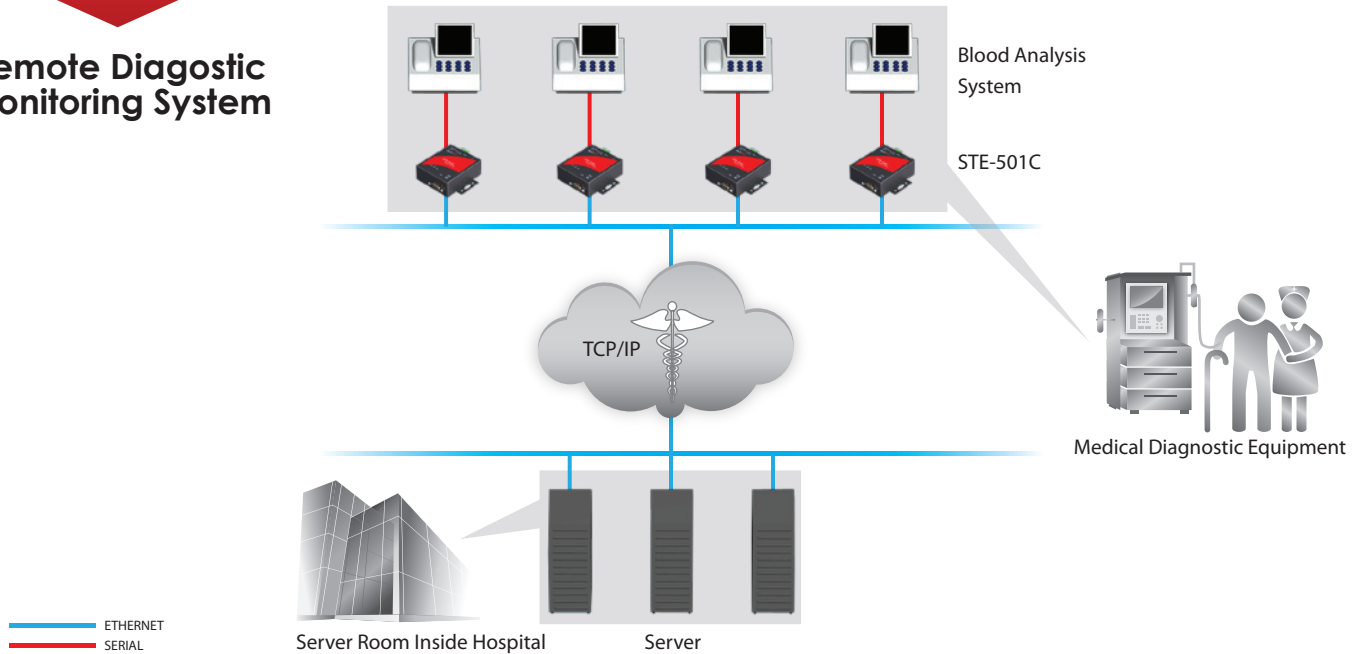
LNP-0500-24 Industrial 5-Port PoE+ Unmanaged Ethernet Switch

- 4*10/100Tx PoE/PoE+ Ports (PoE Power Up to 30W/Port)
- High Protection: Surge-2KV and ESD-6KV
- Dual Redundant Power Input from 12-36VDC

Pg. 37

Medical

Remote Diagnostic Monitoring System



Application

Integrate patient data from medical equipment within the clinical information system

Application Requirements

- Real-time patient data updates within the network
- Securely transmit and access data from anywhere such as nurses' stations, labs, pharmacies, doctors' offices, etc.

Solution

STE-501C / 502C: Industrial serial to Ethernet device server allows medical equipment to securely transmit and access patient data

- Eliminates manual data entry that can be prone to errors and increases staff productivity
- Real time data transfer makes diagnosis more efficient

Key Products



STE-501C Industrial Serial to Ethernet Device Server

- 1*RS232/422/485 Serial (Software Selectable) Port, and 1*10/100Tx Ethernet Port
- Configuration: Web Console, Serial Console, Windows Utility, or Telnet
- Operation Modes: Virtual COM, TCP/UDP Server/Client, Tunneling
Pg. 76



UTS-408A 8-Port Industrial USB to Serial (RS232) Converter

- Provides 8*RS232 Serial Ports over USB Port
- Baud Rate From 300 bps to 921.6 Kbps
- Supports Unique USB Port Locking Feature to Ensure Connection
Pg. 85



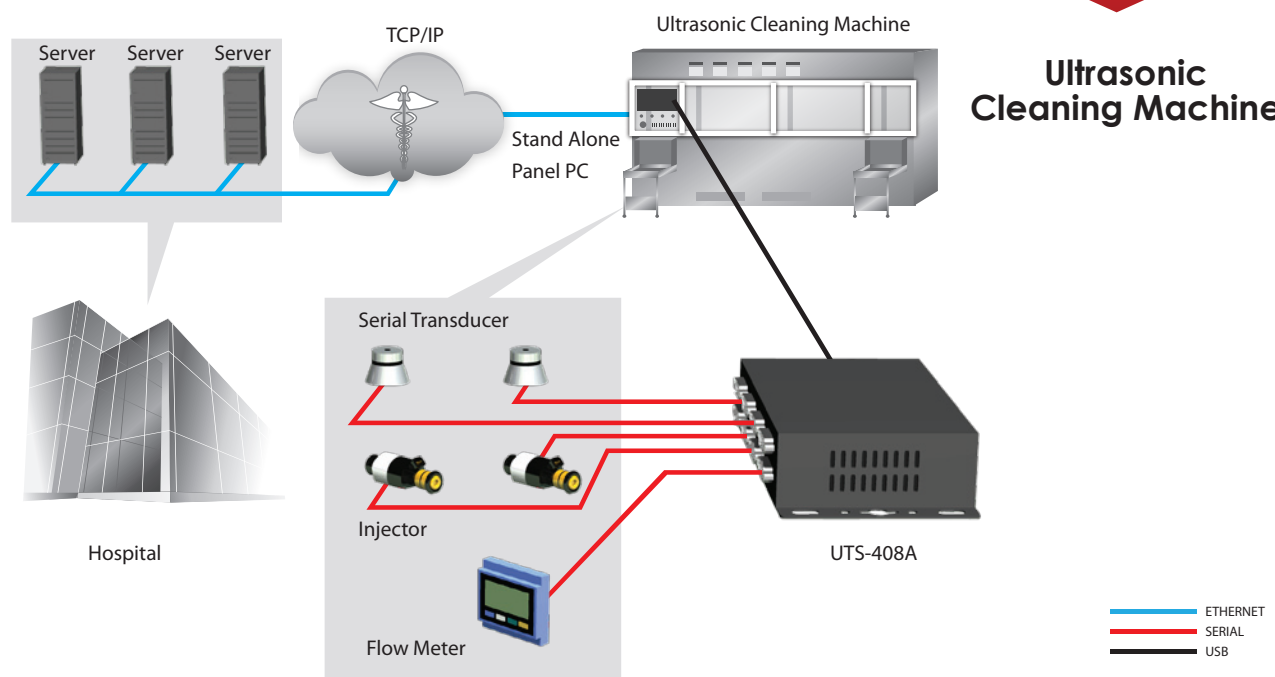
STE-502C 2-Port Industrial Serial to Ethernet Device Server

- 2*RS232/422/485 Serial (Software Selectable) Ports, and 1*10/100Tx LAN Port
- Configuration: Web Console, Serial Console, Windows Utility, or Telnet
- Operation Modes: Virtual COM, TCP/UDP Server/Client, Tunneling
Pg. 76



Medical

Ultrasonic Cleaning Machine



Application

Expand serial COM port connectivity solutions within a stand-alone PC

Application Requirements

- Provide sufficient serial data throughput rate and data protection
- Flexible solution on single USB to multiple serial ports expansion

Solution

UTS-408A: Industrial USB to serial hub with multiple serial port options to expand COM port solutions for a stand-alone PC, or embedded PC with wide range OS driver support

Key Products



UTS-408A

8-Port Industrial USB to Serial (RS232) Converter

- Provides 8*RS232 Serial Ports over USB Port
 - Baud Rate From 300 bps to 921.6 Kbps
 - Supports USB Port Locking Feature to Ensure Connection
- Pg. 85



UTS-416AK

Industrial 16-Port RS232 to USB 2.0 High Speed Converter

- Supports 1*USB 2.0 to 16*RS232 Serial Ports
 - Baud Rate Up to 921.6 Kbps
 - Supports USB Port Locking Feature to Ensure Connection
- Pg. 85

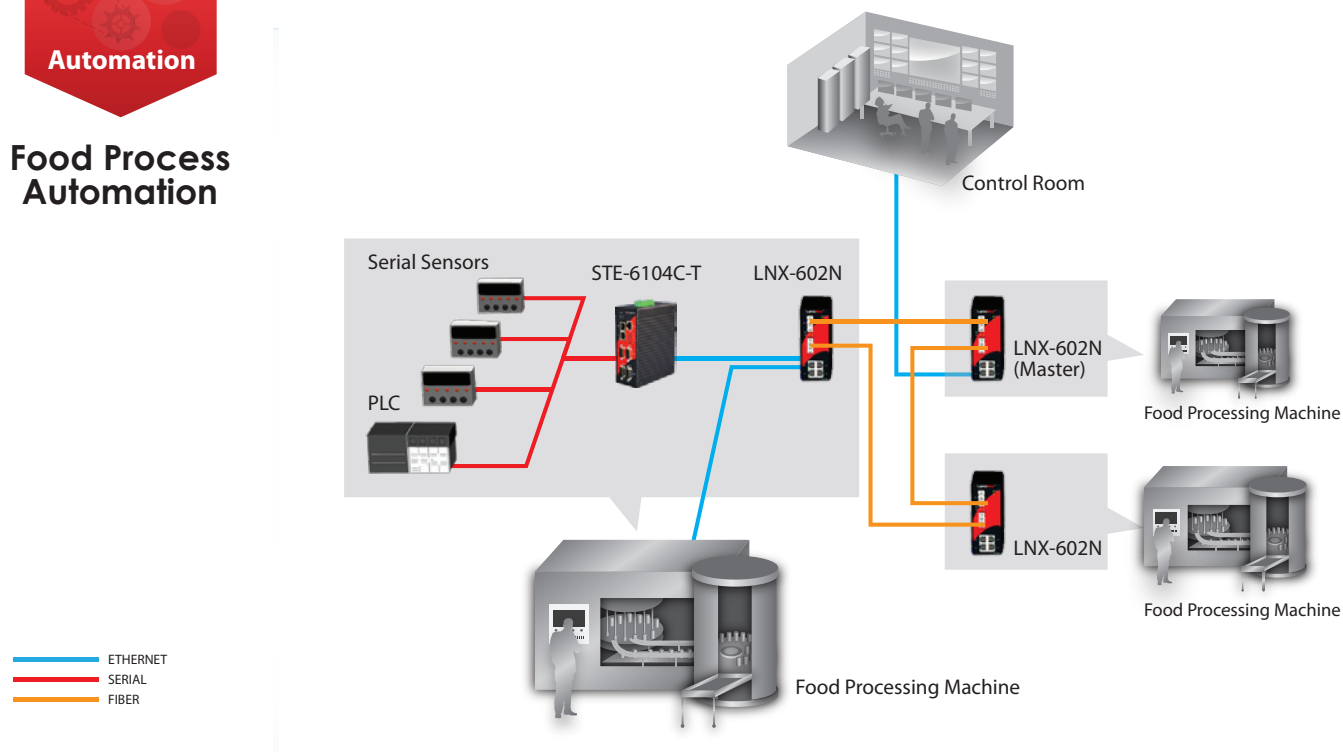


MSC-208A1

8-Port RS232 PCI Express Serial Card

- 8*RS232 Port Expansion w/ PCI Express Bus Connectivity
 - Baud Rate Up to 921.6 Kbps
 - Includes 8*DB9 Male Connection Cable
- Pg. 83

Food Process Automation



Application

Network and monitor real-time food processing equipment on a plant floor

Application Requirements

- High efficiency and accurate control of production processes in large scale factory
- A reliable Ethernet network that allows real-time data transmission within a food processing production line with zero network down time
- Ability to perform real-time remote monitoring and control the production line and machines through the Ethernet network
- Hardened design equipment for harsh environments

Solution

LNX-602N: Industrial managed Ethernet switches allow factory floor equipment to be networked and transmit data back to the control room to fulfill the long haul data transmission requirements of a large scale factory

STE-604C: Provides multiple serial port connectivity solutions to network the machinery sensors and PLCs

Key Products

LNX-602N Industrial Managed Ethernet Switch



- Full Managed Ethernet Switch w/ 4*10/100Tx and 2*100Fx Fiber Ports
- Supports STP/RSTP, and Ring Redundant Network Function
- Web-Based Configuration

Pg. 32

STE-6104C-T Industrial Serial to Ethernet Device Server



- 4*RS232/422/485 Serial (Software Selectable) Ports
- Supports DUAL LAN (10/100Tx) Ports for Network or Data Redundancy Solutions
- 5 Simultaneous in Virtual COM, TCP Server, TCP Client Mode, UDP

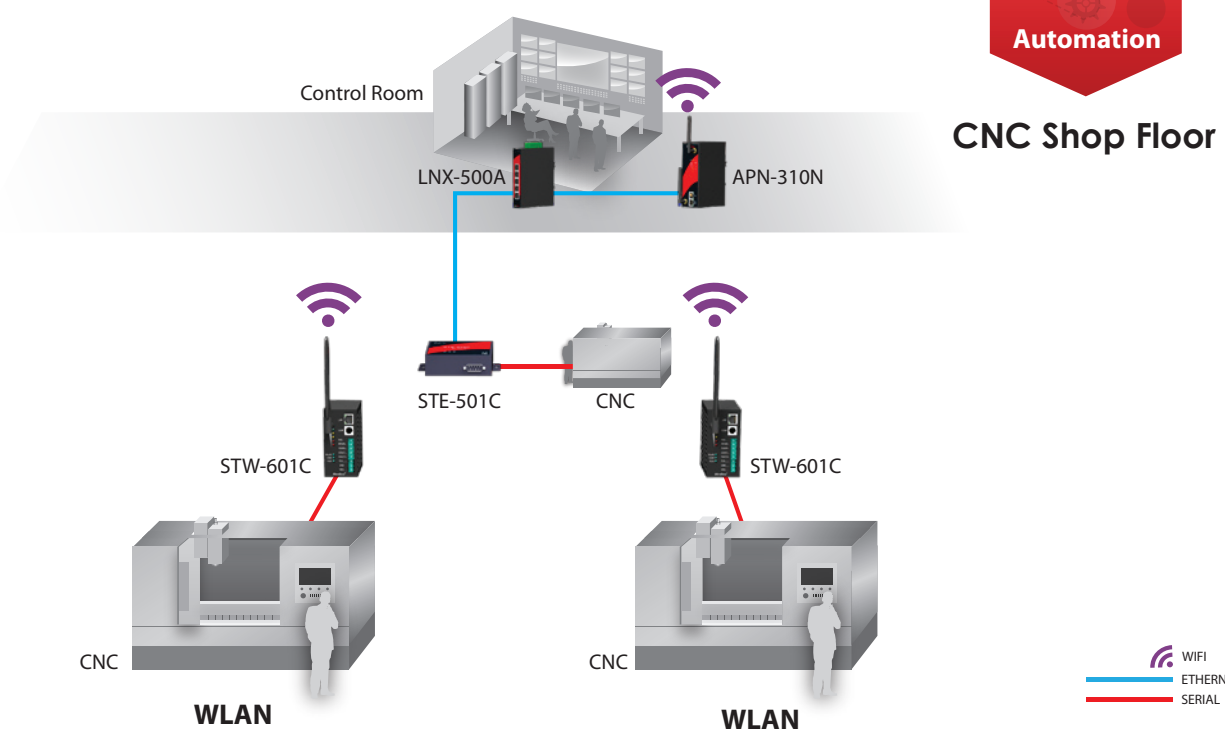
Pg. 77

STF-501C Series 1-Port Industrial RS232/422/485 Serial to Fiber Media Converter



- Supports Point-to-Point, Daisy Chain or Ring Connections
- 2.5 KV Isolation Protection for Serial Signal
- Enhanced Serial Baud Rate Up to 1024 Kbps

Pg. 80



Application

Remotely manage multiple CNC machines on a factory floor

Application Requirements

- Ability to seamlessly and reliably transmit data across the factory floor
- Quick and flexible expansion if necessary

Solution

STE-501C and STW-601C: Provides serial to Ethernet solutions for either hardwiring, or wireless connectivity of different CNC machine serial devices to the network

APN-310N: Provides an industrial grade wireless access point infrastructure solution within the factory floor

LNX-500A: Industrial unmanaged Ethernet switch provides multiple Ethernet ports connectivity for any Ethernet based equipment to the network

Key Products

APN-310N Industrial Wireless Access Point



- Compliant w/ IEEE 802.11a/b/g/n
 - Supports Virtual AP (Multiple SSID)
 - Highly Secured Wireless Network (IEEE 802.11i Compliant)
- Pg. 70

STE-501C Industrial Serial to Ethernet Device Server



- 1*RS232/422/485 Serial (Software Selectable) Port, and 1*10/100Tx Ethernet Port
 - Configurable via Built-in Web Server, Serial Console, or Telnet
 - Operation Modes: Virtual COM, TCP/UDP Server/Client, Tunneling
- Pg. 76

STW-601C Industrial Serial To Wi-Fi Device Server



- IEEE 802.11b/g w/ WPA Security
 - 1 Serial Port w/ RS232 (DB9), or RS422/485 (Terminal Block)
 - Operation Mode: Ad Hoc or Infrastructure Wireless Mode; Virtual COM, TCP/UDP Server/Client, Tunneling
- Pg. 79

▼ Industrial Ethernet





Industrial 10/100 Unmanaged Ethernet Switches



Model Names	LNX-500A Series	LNX-0501 Series	LNX-0602 Series	LNX-800A Series	LNX-800-M12-T
Specifications					
Total Port Count	5-Port	5-Port	6-Port	8-Port	8-Port
Technology					
Standards	IEEE 802.3, 802.3u, 802.3x	IEEE 802.3, 802.3u, 802.3x	IEEE 802.3, 802.3u, 802.3x	IEEE 802.3, 802.3u, 802.3x	IEEE 802.3, 802.3u, 802.3x
Processing Type	Store and Forward	Store and Forward	Store and Forward	Store and Forward	Store and Forward
Protocol	CSMA/CD	CSMA/CD	CSMA/CD	CSMA/CD	CSMA/CD
Switch Properties					
Transfer Rate	14,880pps for Ethernet Port 148,800pps for Fast Ethernet Port	14,880pps for Ethernet Port 148,800pps for Fast Ethernet Port	14,880pps for Ethernet Port 148,800pps for Fast Ethernet Port	14,880pps for Ethernet Port 148,800pps for Fast Ethernet Port	14,880pps for Ethernet Port 148,800pps for Fast Ethernet Port
Jumbo Frame Support	-	-	-	-	-
MAC Table Size	2K	2K	2K	2K	2K
Interface					
Ethernet Port	5*10/100Tx Auto MDI/ MDI-X Connection	4*10/100Tx Auto MDI/ MDI-X Connection	4*10/100Tx Auto MDI/ MDI-X Connection	8*10/100Tx Auto MDI/ MDI-X Connection	8*10/100Tx (M12-4-Pole D-Coded, Female)
Fiber Port	-	(SC/ST) 1*100Fx (Multi-Mode 2Km / Single- Mode 30Km)	(SC/ST) 2*100Fx (Multi-Mode 2Km / Single- Mode 30Km)	-	-
Wavelength	-	1310nm	1310nm	-	-
Protection					
EFT Protection	2,000 VDC for Power Line	2,000 VDC for Power Line	2,000 VDC for Power Line	2,000 VDC for Power Line	2,000 VDC for Power Line
ESD Protection	6,000 VDC for Ethernet	6,000 VDC for Ethernet	6,000 VDC for Ethernet	6,000 VDC for Ethernet	6,000 VDC for Ethernet
Broadcast Storm Protection	-	7,926pps (Default)	7,926pps (Default)	-	-
Power Requirements					
Input Voltage	12~48VDC, Redundant Input	12~48VDC, Redundant Input	12~48VDC, Redundant Input	12~48VDC, Redundant Input	12~48VDC, Redundant Input
Overload Current Protection	Present	Present	Present	Present	Present
Connection	1 Removable 6-Contact Terminal Block	1 Removable 6-Contact Terminal Block	1 Removable 6-Contact Terminal Block	1 Removable 6-Contact Terminal Block	1 Removable 6-Contact Terminal Block
Reverse Polarity Protection	Yes	Yes	Yes	Yes	-
Power Consumption	3W	6.5W	7.5W	5W	3.36W
Mechanical Characteristics					
Housing	Metal, IP30 Protection	Metal, IP30 Protection	Metal, IP30 Protection	Metal, IP30 Protection	Metal, IP30 Protection
Dimensions	30 x 140 x 95 mm	30 x 142 x 99 mm	30 x 142 x 99 mm	30 x 142 x 99 mm	92 x 180 x 42 mm
Weight	1.0 lb.	1.1 lbs.	1.1 lbs.	1.0 lb	4 lbs.
Mounting	DIN-Rail & Wall Mounting	DIN-Rail & Wall Mounting	DIN-Rail & Wall Mounting	DIN-Rail & Wall Mounting	DIN-Rail & Wall Mounting
Environmental Limits					
Operating Temperature	STD: -10 to 70C EOT: -40 to 75C	STD: -10 to 70C EOT: -40 to 75C	STD: -10 to 70C EOT: -40 to 75C	STD: -10 to 70C EOT: -40 to 75C	EOT: -40 to 80C
Storage Temperature	-40 to 85C	-40 to 85C	-40 to 85C	-40 to 85C	-40 to 85C
Ambient Relative Humidity	5 to 95%, (Non-Condensing)	5 to 95%, (Non-Condensing)	5 to 95%, (Non-Condensing)	5 to 95%, (Non-Condensing)	5 to 95%, (Non-Condensing)
Regulatory Approvals					
Green	RoHS Compliant	RoHS Compliant	RoHS Compliant	RoHS Compliant	RoHS Compliant
Certifications	FCC, CE, UL, C1D2	FCC, CE, UL 508	FCC, CE, UL 508	FCC, CE, UL, C1D2	FCC, CE, UL
Warranty	5 Years	5 Years	5 Years	5 Years	5 Years

Industrial 10/100/1000 Unmanaged Ethernet Switches



Model Names	LNX-500AG Series	LNX-0501G-SFP Series	LNX-0601G-SFP Series	LNX-0702C-SFP Series	LNX-0702G-SFP Series
Specifications					
Total Port Count	5-Port	5-Port	6-Port	7-Port	7-Port
Technology					
Standards	IEEE 802.3, 802.3u, 802.3ab, 802.3x	IEEE 802.3, 802.3u, 802.3ab, 802.3z, 802.3x	IEEE 802.3, 802.3u, 802.3ab, 802.3z, 802.3x	IEEE 802.3, 802.3u, 802.3z, 802.3x	IEEE 802.3, 802.3u, 802.3ab, 802.3z, 802.3x
Processing Type	Store and Forward	Store and Forward	Store and Forward	Store and Forward	Store and Forward
Protocol	CSMA/CD	CSMA/CD	CSMA/CD	CSMA/CD	CSMA/CD
Switch Properties					
Transfer Rate	14,880pps for Ethernet 148,800pps for Fast Ethernet 1,488,000pps for Gigabit Ethernet	14,880pps for Ethernet 148,800pps for Fast Ethernet 1,488,000pps for Gigabit Ethernet	14,880pps for Ethernet 148,800pps for Fast Ethernet 1,488,000pps for Gigabit Ethernet	14,880pps for Ethernet 148,800pps for Fast Ethernet	14,880pps for Ethernet 148,800pps for Fast Ethernet 1,488,000pps for Gigabit Ethernet
Jumbo Frame Support	9.6Kbytes	9.6Kbytes	9.6Kbytes	-	9.6Kbytes
MAC Table Size	8K	8K	8K	8K	8K
Interface					
Ethernet Port	5*10/100/1000Tx Auto MDI/MDI-X Connection	4*10/100/1000Tx Auto MDI/MDI-X Connection	5*10/100/1000Tx Auto MDI/MDI-X Connection	5*10/100Tx Auto MDI/MDI-X Connection	5*10/100/1000Tx Auto MDI/MDI-X Connection
Fiber Port	-	1*100/1000 SFP Slot	1*100/1000 SFP Slot	2*100/1000 SFP Slot	2*100/1000 SFP Slot
Wavelength	-	Refer to SFP Module	Refer to SFP Module	Refer to SFP Module	Refer to SFP Module
Protection					
EFT Protection	3,000 VDC for Power Line	2,000 VDC for Power Line	2,000 VDC for Power Line	2,000 VDC for Power Line	2,000 VDC for Power Line
ESD Protection	6,000 VDC for Ethernet	6,000 VDC for Ethernet	6,000 VDC for Ethernet	6,000 VDC for Ethernet	6,000 VDC for Ethernet
Broadcast Storm Protection	7,926pps (Default)	7,926pps (Default)	7,926pps (Default)	-	-
Power Requirements					
Input Voltage	12~48VDC, Redundant Input	12~48VDC, Redundant Input	12~48VDC, Redundant Input	12~48VDC, Redundant Input	12~48VDC, Redundant Input
Overload Current Protection	Present	Present	Present	Present	Present
Connection	1 Removable 6-Contact Terminal Block	1 Removable 6-Contact Terminal Block	1 Removable 6-Contact Terminal Block	1 Removable 6-Contact Terminal Block	1 Removable 6-Contact Terminal Block
Reverse Polarity Protection	Yes	Yes	Yes	Yes	Yes
Power Consumption	5W	5W	5W	9W	9W
Mechanical Characteristics					
Housing	Metal, IP30 Protection	Metal, IP30 Protection	Metal, IP30 Protection	Metal, IP30 Protection	Metal, IP30 Protection
Dimensions	30 x 140 x 95 mm	30 x 140 x 95 mm	30 x 140 x 95 mm	30 x 142 x 99 mm	30 x 142 x 99 mm
Weight	1 lb	1 lb	1 lb	1.1 lbs.	1.1 lbs.
Mounting	DIN-Rail & Wall Mounting	DIN-Rail & Wall Mounting	DIN-Rail & Wall Mounting	DIN-Rail & Wall Mounting	DIN-Rail & Wall Mounting
Environmental Limits					
Operating Temperature	STD: -10 to 70C EOT: -40 to 80C	STD: -10 to 70C EOT: -40 to 75C	STD: -10 to 70C EOT: -40 to 75C	STD: -10 to 70C EOT: -40 to 75C	STD: -10 to 70C EOT: -40 to 75C
Storage Temperature	-40 to 85C	-40 to 85C	-40 to 85C	-40 to 85C	-40 to 85C
Ambient Relative Humidity	5 to 95%, (Non-Condensing)	5 to 95%, (Non-Condensing)	5 to 95%, (Non-Condensing)	5 to 95%, (Non-Condensing)	5 to 95%, (Non-Condensing)
Regulatory Approvals					
Green	RoHS Compliant	RoHS Compliant	RoHS Compliant	RoHS Compliant	RoHS Compliant
Certifications	FCC, CE, UL, C1D2	FCC, CE, UL 508	FCC, CE, UL 508	FCC, CE, UL 508	FCC, CE, UL 508
Warranty	5 Years	5 Years	5 Years	5 Years	5 Years



Industrial 10/100/1000
Unmanaged Ethernet Switches



Model Names	LNX-800AG Series	LNX-802AG Series	LNX-0802C-SFP Series	LNX-0802G-SFP Series
Specifications				
Total Port Count	8-Port	8-Port	8-Port	8-Port
Technology				
Standards	IEEE 802.3, 802.3u, 802.3ab, 802.3x	IEEE 802.3, 802.3u, 802.3ab, 802.3z, 802.3x	IEEE 802.3, 802.3u, 802.3ab, 802.3z, 802.3x	IEEE 802.3, 802.3u, 802.3ab, 802.3z, 802.3x
Processing Type	Store and Forward	Store and Forward	Store and Forward	Store and Forward
Protocol	CSMA/CD	CSMA/CD	CSMA/CD	CSMA/CD
Switch Properties				
Transfer Rate	14,880pps for Ethernet 148,800pps for Fast Ethernet 1,488,000pps for Gigabit Ethernet	14,880pps for Ethernet 148,800pps for Fast Ethernet 1,488,000pps for Gigabit Ethernet	14,880pps for Ethernet 148,800pps for Fast Ethernet 1,488,000pps for Gigabit Ethernet	14,880pps for Ethernet 148,800pps for Fast Ethernet 1,488,000pps for Gigabit Ethernet
Jumbo Frame Support	9.6Kbytes	9.6Kbytes	-	9.6Kbytes
MAC Table Size	8K	8K	8K	8K
Interface				
Ethernet Port	8*10/100/1000Tx Auto MDI/MDI-X Connection	6*10/100/1000Tx Auto MDI/MDI-X Connection	6*10/100Tx Auto MDI/MDI-X Connection	6*10/100/1000Tx Auto MDI/MDI-X Connection
Fiber Port	-	2*100Fx (Multi-Mode 2Km / Single-Mode 10Km)	2*GigE Combo (2*10/100/1000-RJ45, 2*100/1000 SFP)	2*100/1000 SFP
Wavelength	-	810nm(Multi-Mode) / 1310nm(Single-Mode)	Refer to SFP Module	Refer to SFP Module
Protection				
EFT Protection	3,000 VDC for Power Line	3,000 VDC for Power Line	2,000 VDC for Power Line	2,000 VDC for Power Line
ESD Protection	6,000 VDC for Ethernet	6,000 VDC for Ethernet	6,000 VDC for Ethernet	6,000 VDC for Ethernet
Broadcast Storm Protection	7,926pps (Default)	7,926pps (Default)	-	-
Power Requirements				
Input Voltage	12~48VDC, Redundant Input	12~48VDC, Redundant Input	12~48VDC, Redundant Input	12~48VDC, Redundant Input
Overload Current Protection	Present	Present	Present	Present
Connection	1 Removable 6-Contact Terminal Block	1 Removable 6-Contact Terminal Block	1 Removable 6-Contact Terminal Block	1 Removable 6-Contact Terminal Block
Reverse Polarity Protection	Yes	Yes	Yes	Yes
Power Consumption	5W	9.3W	7.5W	8W
Mechanical Characteristics				
Housing	Metal, IP30 Protection	Metal, IP30 Protection	Metal, IP30 Protection	Metal, IP30 Protection
Dimensions	30 x 140 x 95 mm	59.6 x 152 x 105 mm	72 x 152 x 105 mm	72 x 152 x 105 mm
Weight	1 lb	2.5 lbs.	3 lbs.	3 lbs.
Mounting	DIN-Rail & Wall Mounting	DIN-Rail & Wall Mounting	DIN-Rail & Wall Mounting	DIN-Rail & Wall Mounting
Environmental Limits				
Operating Temperature	STD: -10 to 70C EOT: -40 to 80C	STD: -10 to 70C EOT: -40 to 75C	STD: -10 to 70C EOT: -40 to 75C	STD: -10 to 70C EOT: -40 to 75C
Storage Temperature	-40 to 85C	-40 to 85C	-40 to 85C	-40 to 85C
Ambient Relative Humidity	5 to 95%, (Non-Condensing)	5 to 95%, (Non-Condensing)	5 to 95%, (Non-Condensing)	5 to 95%, (Non-Condensing)
Regulatory Approvals				
Green	RoHS Compliant	RoHS Compliant	RoHS Compliant	RoHS Compliant
Certifications	FCC, CE, UL, C1D2	FCC, CE, UL, C1D2	FCC, CE, UL 508	FCC, CE, UL 508
Warranty	5 Years	5 Years	5 Years	5 Years

Industrial 10/100/1000 Unmanaged Ethernet Switches



Model Names	LNX-1002C-SFP Series	LNX-1002G-SFP Series	LNX-1802G Series
Specifications			
Total Port Count	10-Port	10-Port	18-Port
Technology			
Standards	IEEE 802.3, 802.3u, 802.3z, 802.3x	IEEE 802.3, 802.3u, 802.3ab, 802.3z, 802.3x	IEEE 802.3, 802.3u, 802.3ab, 802.3z, 802.3x
Processing Type	Store and Forward	Store and Forward	Store and Forward
Protocol	CSMA/CD	CSMA/CD	CSMA/CD
Switch Properties			
Transfer Rate	14,880pps for Ethernet 148,800pps for Fast Ethernet 1,488,000pps for Gigabit Ethernet	14,880pps for Ethernet 148,800pps for Fast Ethernet 1,488,000pps for Gigabit Ethernet	14,880pps for Ethernet 148,800pps for Fast Ethernet 1,488,000pps for Gigabit Ethernet
Jumbo Frame Support	-	9.6Kbytes	9.6Kbytes
MAC Table Size	8K	8K	8K
Interface			
Ethernet Port	8*10/100Tx Auto MDI/MDI-X Connection	8*10/100/1000Tx Auto MDI/MDI-X Connection	16*10/100Tx Auto MDI/MDI-X Connection
Fiber Port	2*100/1000 SFP Slot	2*100/1000 SFP Slot	2*GigE Combo (RJ45/SFP)
Wavelength	Refer to SFP Module	Refer to SFP Module	Refer to SFP Module
Protection			
EFT Protection	2,000 VDC for Power Line	2,000 VDC for Power Line	3,000 VDC for Power Line
ESD Protection	6,000 VDC for Ethernet	6,000 VDC for Ethernet	6,000 VDC for Ethernet
Broadcast Storm Protection	7,926pps (Default)	7,926pps (Default)	7,926pps (Default)
Power Requirements			
Input Voltage	12~48VDC, Redundant Input	12~48VDC, Redundant Input	12~48VDC, Redundant Input
Overload Current Protection	Present	Present	Present
Connection	1 Removable 6-Contact Terminal Block	1 Removable 6-Contact Terminal Block	1 Removable 6-Contact Terminal Block
Reverse Polarity Protection	Yes	Yes	Yes
Power Consumption	9W	9W	9W
Mechanical Characteristics			
Housing	Metal, IP30 Protection	Metal, IP30 Protection	Metal, IP30 Protection
Dimensions	72 x 152 x 105 mm	72 x 152 x 105 mm	72 x 152 x 105 mm
Weight	3 lbs.	3 lbs.	3.5 lbs.
Mounting	DIN-Rail & Wall Mounting	DIN-Rail & Wall Mounting	DIN-Rail & Wall Mounting
Environmental Limits			
Operating Temperature	STD: -10 to 70C EOT: -40 to 75C	STD: -10 to 70C EOT: -40 to 75C	STD: -10 to 70C EOT: -40 to 80C
Storage Temperature	-40 to 85C	-40 to 85C	-40 to 85C
Ambient Relative Humidity	5 to 95%, (Non-Condensing)	5 to 95%, (Non-Condensing)	5 to 95%, (Non-Condensing)
Regulatory Approvals			
Green	RoHS Compliant	RoHS Compliant	RoHS Compliant
Certifications	FCC, CE, UL 508	FCC, CE, UL 508	FCC, CE, UL
Warranty	5 Years	5 Years	5 Years



Industrial 10/100 Managed Ethernet Switches



Model Names	LMX-0500 Series (NEW)	LNX-501W Series	LMX-0501 Series (NEW)
Specifications			
Total Port Count	5-Port	5-Port	5-Port
Technology			
Standards	IEEE 802.3, 802.3u, 802.3x, 802.1D, 802.1w, 802.1s, 802.1p, 802.1Q ITU-T G.8032	IEEE 802.3, 802.3u, 802.3x, 802.1D, 802.1w, 802.1p, 802.1Q	IEEE 802.3, 802.3u, 802.3x, 802.1D, 802.1w, 802.1s, 802.1p, 802.1Q ITU-T G.8032
Protocol	IGMP, GVRP, SNMPv1/v2c, DHCP Client, TFTP, SNMP, SMTP, RMON, HTTP, Syslog,	IGMPv1, SNMP, DHCP Client, TFTP, SNMP, HTTP,	IGMP, GVRP, SNMPv1/v2c, DHCP Client, TFTP, SNMP, SMTP, RMON, HTTP, Syslog,
MAC Table Size	2K	2K	2K
Interface			
Ethernet Port	5*10/100Tx Auto MDI/MDI-X Connection	4*10/100Tx Auto MDI/MDI-X Connection	4*10/100Tx Auto MDI/MDI-X connection
Fiber Port	-	1*100Fx (Multi-Mode 2Km / Single-Mode 30Km) / WDM-Mode 20Km	1*100Fx (Multi-Mode 2Km / Single-Mode 30Km)
Wavelength	-	1310nm (Multi / Single-Mode) WDM-A: TX:1310nm / RX:1550nm; WDM-B: TX:1550nm / RX: 1310nm.	1310nm (Multi / Single- Mode)
Network Management & Control			
System Configuration	Web Console	Web Console	Web Console
Network Redundancy	STP, RSTP, MSTP G.8032 ERPS Ring Redundancy Recovery <50ms	STP, RSTP; Ring Redundancy Recovery <300ms	STP, RSTP, MSTP G.8032 ERPS Ring Redundancy Recovery <50ms
IEEE 802.1Q VLAN	Port Based, Tag Based, Groups up to 256	Port Based & Tag Based - Groups up to 64	Port Based, Tag Based, Groups up to 256
QoS	Provides 4 Priority Queues per Port	Port Based, Tag Based, & IPv4 Type of Service	Provides 4 Priority Queues per Port
IGMP Snooping/GMRP	IGMP v1, v2 and Query Mode. Up to 256 Groups	IGMP v1 and Query Mode. Up to 256 Groups	IGMP v1, v2 and Query Mode. Up to 256 Groups
IEEE 802.1X Authentication	-	-	-
IP Security	Up to 10 Specific IP Addresses	-	Up to 10 Specific IP Addresses
System Warning Email Alert	By Exception Through Email	-	By Exception Through Email
Serial Console	1*RJ45 Port	-	1*RJ45 Port
Configuration Backup	1*USB 2.0 Port	-	1*USB 2.0 Port
Power Requirements			
Input Voltage	12~48VDC, Redundant Input	12~48VDC, Redundant Input	12~48VDC, Redundant Input
Connection	1 Removable 6-Contact Terminal Block	1 Removable 6-Contact Terminal Block	1 Removable 6-Contact Terminal Block
Reverse Polarity Protection	Yes	Yes	Yes
Power Consumption	3W	3.5W	3.5W
Relay Alarm Contact	1A @ 24VDC	1A @ 24VDC	1A @ 24VDC
Mechanical Characteristics			
Housing	Metal, IP30 Protection	Metal, IP30 Protection	Metal, IP30 Protection
Dimensions	46 x 142 x 99 mm	58 x 135 x 105 mm	46 x 142 x 99 mm
Weight	1.5 lbs.	1.5 lbs.	1.5 lbs.
Mounting	DIN-Rail & Wall Mounting	DIN-Rail & Wall Mounting	DIN-Rail & Wall Mounting
Environmental Limits			
Operating Temperature	STD: -10 to 70C EOT: -40 to 75C	STD: -10 to 70C EOT: -40 to 80C	STD: -10 to 70C EOT: -40 to 75C
Storage Temperature	-40 to 85C	-40 to 85C	-40 to 85C
Ambient Relative Humidity	5 to 95%, (Non-Condensing)	5 to 95%, (Non-Condensing)	5 to 95%, (Non-Condensing)
Regulatory Approvals			
Green	RoHS Compliant	RoHS Compliant	RoHS Compliant
Certifications	FCC, CE, UL 508	FCC, CE, UL	FCC, CE, UL 508
Warranty	5 Years	5 Years	5 Years

Industrial 10/100 Managed Ethernet Switches



Model Names	LMX-0600 Series (NEW)	LNX-602N Series	LMX-0602 Series (NEW)
Specifications			
Total Port Count	6-Port	6-Port	6-Port
Technology			
Standards	IEEE 802.3, 802.3u, 802.3x, 802.1D, 802.1w, 802.1s, 802.1p, 802.1Q ITU-T G.8032	802.3, 802.3u, 802.3x, 802.1D, 802.1w, 802.1p, 802.1Q	IEEE 802.3, 802.3u, 802.3x, 802.1d, 802.1w, 802.1s, 802.1p, 802.1Q, ITU-T G.8032
Protocol	IGMP, GVRP, SNMPv1/v2c, DHCP Client, TFTP, SNMP, SMTP, RMON, HTTP, Syslog,	SNMPv1/v2c, DHCP Client, TFTP, SNMP, SMTP, HTTP, Syslog	IGMP, GVRP, SNMPv1/v2c, DHCP Client, TFTP, SNMP, SMTP, RMON, HTTP, Syslog,
MAC Table Size	2K	2K	2K
Interface			
Ethernet Port	6*10/100Tx Auto MDI/MDI-X Connection	4*10/100Tx Auto MDI/MDI-X Connection	4*10/100Tx Auto MDI/MDI-X Connection
Fiber Port	-	2*100Fx (Multi-Mode 2Km / Single-Mode 30Km)	2*100Fx (Multi-Mode 2Km / Single-Mode 30Km)
Wavelength	-	1310nm (Multi / Single-Mode)	1310nm (Multi / Single-Mode)
Network Management & Control			
System Configuration	Web Console	Web Console	Web Console
Network Redundancy	STP, RSTP, MSTP G.8032 ERPS Ring Redundancy Recovery <50ms	STP, RSTP; Ring Redundancy Recovery <10ms	STP, RSTP, MSTP G.8032 ERPS Ring Redundancy Recovery <50ms
IEEE 802.1Q VLAN	Port Based, Tag Based, Groups up to 256	Port Based	Port Based, Tag Based, Groups up to 256
QoS	Provides 4 Priority Queues per Port	-	Provides 4 Priority Queues per Port
IGMP Snooping/GMRP	IGMP v1, v2 and Query Mode. Up to 256 Groups	-	IGMP v1, v2 and Query Mode. Up to 256 Groups
IEEE 802.1X Authenticaion	-	-	-
IP Security	Up to 10 Specific IP Addresses	-	Up to 10 Specific IP Addresses
System Warning Email Alert	By Exception Through Email	-	By Exception Through Email
Serial Console	1*RJ45 Port	-	1*RS232 (RJ45 Port)
Configuration Backup	1* USB 2.0 Port	-	1* USB 2.0 Port
Power Requirements			
Input Voltage	12~48VDC, Redundant Input	12~48VDC, Redundant Input	12~48VDC, Redundant Input
Connection	1 Removable 6-Contact Terminal Block	1 Removable 6-Contact Terminal Block	1 Removable 6-Contact Terminal Block
Reverse Polarity Protection	Yes	Yes	Yes
Power Consumption	4.5W	7W	5W
Relay Alarm Contact	1A @ 24VDC	1A @ 24VDC	1A @ 24VDC
Mechanical Characteristics			
Housing	Metal, IP30 Protection	Metal, IP30 Protection	Metal, IP30 Protection
Dimensions	46 x 142 x 97.8 mm	52 x 106 x 144 mm	46 x 142 x 97.8 mm
Weight	1.1 lbs.	3 lbs.	1.1 lbs.
Mounting	DIN-Rail & Wall Mounting	DIN-Rail & Wall Mounting	DIN-Rail & Wall Mounting
Environmental Limits			
Operating Temperature	STD: -10 to 70C EOT: -40 to 75C	EOT: -40 to 75C	STD: -10 to 70C EOT: -40 to 75C
Storage Temperature	-40 to 85C	-40 to 85C	-40 to 85C
Ambient Relative Humidity	5 to 95%, (Non-Condensing)	5 to 95%, (Non-Condensing)	5 to 95%, (Non-Condensing)
Regulatory Approvals			
Green	RoHS Compliant	RoHS Compliant	RoHS Compliant
Certifications	FCC, CE, UL 508	FCC, CE	FCC, CE, UL 508
Warranty	5 Years	5 Years	5 Years



Industrial 10/100 Managed Ethernet Switches



Model Names	LNx-800N Series	LNx-800N-67-T	LNx-802N Series	LNx-1002N-67-T
Specifications				
Total Port Count	8-Port	8-Port	8-Port	10-Port
Technology				
Standards	IEEE 802.3, 802.3u, 802.3x, 802.1D, 802.1w, 802.1p, 802.1Q,	IEEE 802.3, 802.3u, 802.3x, 802.1D, 802.1w, 802.1p, 802.1Q, 802.3ad,	IEEE 802.3, 802.3u, 802.3x, 802.1D, 802.1w, 802.1p, 802.1Q,	IEEE 802.3, 802.3u, 802.3x, 802.1D, 802.1w, 802.1p, 802.1Q, 802.3ad,
Protocol	IGMP, SNMP, DHCP Client, TFTP, SNMP, SMTP, RMON, HTTP	IGMPv1/v2, GVRP, SNMPv1/v2c/v3, DHCP Server/Client, TFTP, SNMP, SMTP, RMON, HTTP, Telnet, Syslog, LLDP, IPv6, LACP	IGMPv1/v2, SNMPv1, DHCP Client, TFTP, SNMP, SMTP, RMON, HTTP	IGMPv1/v2, GVRP, SNMPv1/v2c/v3, DHCP Server/Client, TFTP, SNMP, SMTP, RMON, HTTP, Telnet, Syslog, LLDP, IPv6, LACP
MAC Table Size	2K	2K	2K	2K
Interface				
Ethernet Port	8*10/100Tx Auto MDI/MDI-X Connection	8*10/100Tx (M12-4-Pole D-Coded, Female)	6*10/100Tx Auto MDI/MDI-X Connection	8*10/100Tx (M12-4-Pole D-Coded, Female)
Fiber Port	-	-	2*100Fx (Multi-Mode 2Km / Single-Mode 30Km)	2 x 100 LC Type Socket with Waterproof (100FX)
Wavelength	-	-	1310nm (Multi / Single-Mode)	1310nm (Multi / Single-Mode)
Network Management & Control				
System Configuration	Web Console	Web Console; Telnet; CLI Console	Web Console	Web Console; Telnet; CLI Console
Network Redundancy	STP, RSTP; Ring Redundancy Recovery <300ms	STP, RSTP; Ring Redundancy Recovery <10ms	STP, RSTP; Ring Redundancy Recovery <300ms	STP, RSTP; Ring Redundancy Recovery <10ms
IEEE 802.1Q VLAN	Port Based & Tag Based - Up to 64 Groups	Port Based, Tag/Double Tag VLAN (Q-in-Q); Groups up to 256, VLAN ID: 1 to 4094	Port Based & Tag Based - Up to 64 Groups	Port Based, Tag/Double Tag VLAN (Q-in-Q); Groups up to 256, VLAN ID: 1 to 4094
QoS	Provides 4 Priority Queues per Port	Provides 4 Priority Queues per Port	Provides 4 Priority Queues per Port	Provides 4 Priority Queues per Port
IGMP Snooping/GMRP	IGMP v1 and Query Mode. Up to 256 Groups	IGMP and Query Mode. Up to 256 Groups	IGMP v1 and Query Mode. Up to 256 Groups	IGMP and Query Mode. Up to 256 Groups
IEEE 802.1X Authenticaion	-	RADIUS Support	-	RADIUS Support
IP Security	Up to 10 Specific IP Addresses	Up to 10 Specific IP Addresses	Up to 10 Specific IP Addresses	Up to 10 Specific IP Addresses
System Warning Email Alert	By Exception Through Email	By Exception Through Email	By Exception Through Email	By Exception Through Email
Serial Console	-	1 x M12, 8-pole A-Coded, Female (RS232)	-	1 x M12, 8-pole A-Coded, Female (RS232)
Configuration Backup	-	-	-	-
Power Requirements				
Input Voltage	12~48VDC, Redundant Input	12~48VDC, Redundant Input	12~48VDC, Redundant Input	12~48VDC, Redundant Input
Connection	1 Removable 6-Contact Terminal Block	1 x M12, 5-Pole A-Coded, Male	1 Removable 6-Contact Terminal Block	1 x M12, 5-Pole A-Coded, Male
Reverse Polarity Protection	Yes	Yes	Yes	Yes
Power Consumption	5.8W	8.1W Max. @ 48 VDC	6W	8.1W Max. @ 48 VDC
Relay Alarm Contact	1A @ 24VDC	1*M12, 3-Pole A-Coded, F (1A @ 24 VDC)	1A @ 24VDC	1*M12, 3-Pole A-Coded, F (1A @ 24 VDC)
Mechanical Characteristics				
Housing	Metal, IP30 Protection	IP-67 Protection, Aluminum Shell	Metal, IP30 Protection	IP-67 Protection, Aluminum Shell
Dimensions	54 x 135 x 105 mm	193 x 176 x 62.5 mm	58 x 135 x 105.8 mm	193 x 176 x 62.5 mm
Weight	1.5 lbs.	3 lbs.	1.6 lbs.	3 lbs.
Mounting	DIN-Rail & Wall Mounting	DIN-Rail & Wall Mounting	DIN-Rail & Wall Mounting	DIN-Rail & Wall Mounting
Environmental Limits				
Operating Temperature	STD: -10 to 70C EOT: -40 to 80C	EOT: -40 to 75C	STD: -10 to 70C EOT: -40 to 80C	EOT: -40 to 75C
Storage Temperature	-40 to 85C	-40 to 85C	-40 to 85C	-40 to 85C
Ambient Relative Humidity	5 to 95%, (Non-Condensing)	5 to 95%, (Non-Condensing)	5 to 95%, (Non-Condensing)	5 to 95%, (Non-Condensing)
Regulatory Approvals				
Green	RoHS Compliant	RoHS Compliant	RoHS Compliant	RoHS Compliant
Certifications	FCC, CE, UL	FCC, CE, UL 508	FCC, CE, UL	FCC, CE, UL 508
Warranty	5 Years	5 Years	5 Years	5 Years

Industrial 10/100/1000 Managed Ethernet Switches



Model Names	LMX-0501G-SFP Series	LMX-0601G-SFP Series	LMX-0802C-SFP Series	LMX-0802G-SFP Series
Specifications				
Total Port Count	5-Port	6-Port	8-Port	8-Port
Technology				
Standards	IEEE 802.3, 802.3u, 802.3ab, 802.3z, 802.1d, 802.1w, 802.1s, 802.1p, 802.1Q, 802.1ab, ITU-T G.8032	IEEE 802.3, 802.3u, 802.3ab, 802.3z, 802.1d, 802.1w, 802.1s, 802.1p, 802.1Q, 802.1ab, ITU-T G.8032	IEEE 802.3, 802.3u, 802.3z, 802.1d, 802.1w, 802.1s, 802.1p, 802.1Q, 802.1ab, ITU-T G.8032	IEEE 802.3, 802.3u, 802.3ab, 802.3z, 802.1d, 802.1w, 802.1s, 802.1p, 802.1Q, 802.1ab, ITU-T G.8032
Protocol	IGMP, GVRP, SNMPv1/v2c, DHCP Client, TFTP, SNMP, SMTP, RMON, HTTP, Syslog	IGMP, GVRP, SNMPv1/v2c, DHCP Client, TFTP, SNMP, SMTP, RMON, HTTP, Syslog	IGMP, GVRP, SNMPv1/v2c, DHCP Client, TFTP, SNMP, SMTP, RMON, HTTP, Syslog	IGMP, GVRP, SNMPv1/v2c, DHCP Client, TFTP, SNMP, SMTP, RMON, HTTP, Syslog
Jumbo Frame Support	9.6Kbytes	9.6Kbytes	-	9.6Kbytes
MAC Table Size	8K	8K	8K	8K
Interface				
Ethernet Port	4*10/100/1000Tx Auto MDI/MDI-X Connection	5*10/100/1000Tx Auto MDI/MDI-X Connection	6*10/100Tx Auto MDI/MDI-X Connection	6*10/100/1000Tx Auto MDI/MDI-X Connection
Fiber Port	1*100/1000 SFP Slot	1*100/1000 SFP Slot	2*GigE Combo (2*10/100/1000-RJ45, 2*100/1000 SFP)	2*100/1000 SFP
Wavelength	Refer to SFP Module	Refer to SFP Module	Refer to SFP Module	Refer to SFP Module
Network Management & Control				
System Configuration	Web Console	Web Console	Web Console; Telnet; CLI Console	Web Console; Telnet; CLI Console
Network Redundancy	STP, RSTP, MSTP G.8032 ERPS Ring Redundancy Recovery <50ms	STP, RSTP, MSTP G.8032 ERPS Ring Redundancy Recovery <50ms	STP, RSTP, MSTP G.8032 ERPS Ring Redundancy Recovery <50ms	STP, RSTP, MSTP G.8032 ERPS Ring Redundancy Recovery <50ms
IEEE 802.1Q VLAN	Port Based, Tag Based, Up to 256 Groups	Port Based & Tag Based - Up to 256 Groups	Port Based, Tag Based, Groups up to 256	Port Based, Tag Based, Groups up to 256
QoS	Provides 4 Priority Queues per Port	Port Based, Tag Based, & IPv4 Type of Service	Provides 4 Priority Queues per Port	Provides 4 Priority Queues per Port
IGMP Snooping/GMRP	IGMP v1, v2 and Query Mode. Up to 256 Groups	IGMP v1 and Query Mode. Up to 256 Groups	IGMP v1, v2 and Query Mode. Up to 256 Groups	IGMP v1, v2 and Query Mode. Up to 256 Groups
IEEE 802.1X Authentication	RADIUS Support	RADIUS Support	RADIUS Support	RADIUS Support
IP Security	Up to 10 Specific IP Addresses	Up to 10 Specific IP Addresses	Up to 10 Specific IP Addresses	Up to 10 Specific IP Addresses
System Warning Email Alert	By Exception Through Email	By Exception Through Email	By Exception Through Email	By Exception Through Email
Serial Console	1*RS232 (RJ45 Port)	1*RS232 (RJ45 Port)	1*RS232 (RJ45 Port)	1*RS232 (RJ45 Port)
Configuration Backup	1* USB 2.0 Port	1* USB 2.0 Port	1* USB 2.0 Port	1* USB 2.0 Port
Power Requirements				
Input Voltage	12~48VDC, Redundant Input	12~48VDC, Redundant Input	12~48VDC, Redundant Input	12~48VDC, Redundant Input
Connection	1 Removable 6-Contact Terminal Block	1 Removable 6-Contact Terminal Block	1 Removable 6-Contact Terminal Block	1 Removable 6-Contact Terminal Block
Reverse Polarity Protection	Yes	Yes	Yes	Yes
Power Consumption	4W	5W	8W	8W
Relay Alarm Contact	1A @ 24VDC	1A @ 24VDC	1A @ DC24V	1A @ DC24V
Mechanical Characteristics				
Housing	Metal, IP30 Protection	Metal, IP30 Protection	Metal, IP30 Protection	Metal, IP30 Protection
Dimensions	46 x 142 x 99 mm	46 x 142 x 99 mm	46 x 142 x 99 mm	46 x 142 x 99 mm
Weight	1.5 lbs.	1.5 lbs.	1.7 lbs.	1.7 lbs.
Mounting	DIN-Rail & Wall Mounting	DIN-Rail & Wall Mounting	DIN-Rail & Wall Mounting	DIN-Rail & Wall Mounting
Environmental Limits				
Operating Temperature	STD: -10 to 70C EOT: -40 to 75C	STD: -10 to 70C EOT: -40 to 80C	STD: -10 to 70C EOT: -40 to 75C	STD: -10 to 70C EOT: -40 to 75C
Storage Temperature	-40 to 85C	-40 to 85C	-40 to 85C	-40 to 85C
Ambient Relative Humidity	5 to 95%, (Non-Condensing)	5 to 95%, (Non-Condensing)	5 to 95%, (Non-Condensing)	5 to 95%, (Non-Condensing)
Regulatory Approvals				
Green	RoHS Compliant	RoHS Compliant	RoHS Compliant	RoHS Compliant
Certifications	FCC, CE, UL 508	FCC, CE, UL 508	FCC, CE, UL 508	FCC, CE, UL 508
Warranty	5 Years	5 Years	5 Years	5 Years



Industrial 10/100/1000
Managed Ethernet Switches



Model Names	LNX-804GN Series	LNX-1002GN Series	LMX-1002C-SFP Series	LMX-1002G-SFP Series
Specifications				
Total Port Count	8-Port	10-Port	10-Port	10-Port
Technology				
Standards	IEEE 802.3, 802.3u, 802.3ab, 802.3z, 802.3x, 802.1d, 802.1p, 802.1Q,	IEEE 802.3, 802.3u, 802.3ab, 802.3z, 802.3x, 802.3ad, 802.1d, 802.1p, 802.1Q, 802.1ab,	IEEE 802.3, 802.3u, 802.3z, 802.1d, 802.1w, 802.1s, 802.1p, 802.1Q, 802.1ab, ITU-T G.8032	IEEE 802.3, 802.3u, 802.3ab, 802.3z, 802.1d, 802.1w, 802.1s, 802.1p, 802.1Q, 802.1ab, ITU-T G.8032
Protocol	IGMP, GVRP, SNMPv1/v2c/v3, DHCP Server/Client, TFTP, SNMP, SMTP, RMON, HTTP, Syslog, LLDP	IGMPv1/v2, GVRP, SNMPv1/v2c/v3, DHCP Server/Client, TFTP, SNMP, SMTP, RMON, HTTP, Telnet, Syslog, LLDP, IPv6, LACP	IGMPv1/v2/v3, GVRP, SNMPv1/v2c/v3, DHCP Server/Client, SNMP, RMON, HTTP, Telnet, Syslog, LLDP, IPv6, LACP	IGMPv1/v2/v3, GVRP, SNMPv1/v2c/v3, DHCP Server/Client, SNMP, RMON, HTTP, Telnet, Syslog, LLDP, IPv6, LACP
Jumbo Frame Support	-	-	-	9.6Kbytes
MAC Table Size	8K	8K	8K	8K
Interface				
Ethernet Port	4*100/1000Tx Auto MDI/MDI-X Connection	8*10/100Tx Auto MDI/MDI-X Connection	8*10/100Tx Auto MDI/MDI-X Connection	8*10/100/1000Tx Auto MDI/MDI-X Connection
Fiber Port	4*10/100/1000 SFP Slot	2*1000 Combo Port (RJ45/SFP)	2*GigE Combo (2*10/100/1000-RJ45, 2*100/1000 SFP)	2*100/1000 SFP
Wavelength	Refer to SFP Module	Refer to SFP Module	Refer to SFP Module	Refer to SFP Module
Network Management & Control				
System Configuration	Web Console; Telnet; CLI Console	Web Console; Telnet; CLI Console	Web Console; Telnet; CLI Console	Web Console; Telnet; CLI Console
Network Redundancy	STP, RSTP, Ring Redundancy Recovery <20ms	STP, RSTP, Ring Redundancy Recovery <20ms	STP, RSTP, MSTP G.8032 ERPS Ring Redundancy Recovery <50ms	STP, RSTP, MSTP G.8032 ERPS Ring Redundancy Recovery <50ms
IEEE 802.1Q VLAN	Port Based, Tag Based, Up to 256 Groups	Port Based, Tag Based, Up to 256 Groups	Port Based, Tag Based, Groups up to 256	Port Based, Tag Based, Groups up to 256
QoS	Provides 4 Priority Queues per Port	Provides 4 Priority Queues per Port	Provides 4 Priority Queues per Port	Provides 4 Priority Queues per Port
IGMP Snooping/GMRP	IGMP v1,v2,v3 Up to 256 Multicast Groups & Query	IGMP v1, v2 and Query Mode. Up to 256 Groups	IGMP v1, v2 and Query Mode. Up to 256 Groups	IGMP v1, v2 and Query Mode. Up to 256 Groups
IEEE 802.1X Authentication	RADIUS Support	RADIUS Support	RADIUS Support	RADIUS Support
IP Security	Up to 10 Specific IP Addresses	Up to 10 Specific IP Addresses	Up to 10 Specific IP Addresses	Up to 10 Specific IP Addresses
System Warning Email Alert	By Exception Through Email	By Exception Through Email	By Exception Through Email	By Exception Through Email
Serial Console	1*RS232 (RJ45 Port)	1*RS232 (RJ45 Port)	1*RS232 (RJ45 Port)	1*RS232 (RJ45 Port)
Configuration Backup	-	-	1* USB 2.0 Port	1* USB 2.0 Port
Power Requirements				
Input Voltage	12~48VDC, Redundant Input	24/48VDC, Redundant Input	12~48VDC, Redundant Input	12~48VDC, Redundant Input
Connection	1 Removable 6-Contact Terminal Block	1 Removable 6-Contact Terminal Block	1 Removable 6-Contact Terminal Block	1 Removable 6-Contact Terminal Block
Reverse Polarity Protection	Yes	Yes	Yes	Yes
Power Consumption	3.5W	10.7W	10W	10W
Relay Alarm Contact	1A @ 24VDC	1A @ 24VDC	1A @ DC24V	1A @ DC24V
Mechanical Characteristics				
Housing	Metal, IP30 Protection	Metal, IP30 Protection	Metal, IP30 Protection	Metal, IP30 Protection
Dimensions	75 x 152 x 105 mm	72 x 152 x 105 mm	46 x 142 x 99 mm	46 x 142 x 99 mm
Weight	2 lbs.	2 lbs.	4 lbs.	4 lbs.
Mounting	DIN-Rail & Wall Mounting	DIN-Rail & Wall Mounting	DIN-Rail & Wall Mounting	DIN-Rail & Wall Mounting
Environmental Limits				
Operating Temperature	STD: -10 to 70C EOT: -40 to 80°C	STD: -10 to 70C EOT: -40 to 80C	STD: -10 to 70C EOT: -40 to 75C	STD: -10 to 70C EOT: -40 to 75C
Storage Temperature	-40 to 85C	-40 to 85C	-40 to 85C	-40 to 85C
Ambient Relative Humidity	5 to 95%, (Non-Condensing)	5 to 95%, (Non-Condensing)	5 to 95%, (Non-Condensing)	5 to 95%, (Non-Condensing)
Regulatory Approvals				
Green	RoHS Compliant	RoHS Compliant	RoHS Compliant	RoHS Compliant
Certifications	FCC, CE, UL, C1D2	FCC, CE, UL	FCC, CE, UL 508	FCC, CE, UL 508
Warranty	5 Years	5 Years	5 Years	5 Years

Industrial 10/100/1000 Managed Ethernet Switches



Model Names	LNx-1212GN-SFP Series	LNx-1802GN Series	LNx-2602GN Series
Specifications			
Total Port Count	12-Port	18-Port	26-Port
Technology			
Standards	IEEE 802.3, 802.3u, 802.3ab, 802.3z, 802.3x, 802.3ad, 802.1d STP / IEEE802.1w, 802.1s, 802.1p, 802.1Q, 802.1ab,	IEEE 802.3, 802.3u, 802.3ab, 802.3z, 802.3x, 802.3ad, 802.1d, 802.1p, 802.1Q, 802.1ab,	IEEE 802.3, 802.3u, 802.3ab, 802.3z, 802.3x, 802.3ad, 802.1d, 802.1s, 802.1p, 802.1Q, 802.1ab,
Protocol	IGMPv1/v2/v3, GVRP, SNMPv1/v2c/v3, DHCP Server/Client, STNP, RMON, HTTP, Telnet, Syslog, LLDP, IPv6, LACP	IGMPv1/v2, GVRP, SNMPv1/v2c/v3, DHCP Server/Client, TFTP, STNP, SMTP, HTTP, Telnet, Syslog, LLDP, LACP	IGMPv1/v2/v3, GVRP, SNMPv1/v2c/v3, DHCP Server/Client, TFTP, STNP, SMTP, HTTP, Telnet, Syslog, LLDP, LACP
Jumbo Frame Support	9.6Kbytes	-	9.6Kbytes
MAC Table Size	8K	8K	8K
Interface			
Ethernet Port	8*GigE Combo Ports (10/100/1000Tx and 1000 SFP)	16*10/100Tx Auto MDI/MDI-X Connection	24*10/100Tx Auto MDI/MDI-X Connection
Fiber Port	4*1000 SFP Slot	2*10/100/1000Tx RJ45 and 1000 SFP	2*10/100/1000Tx RJ45 and 1000 SFP
Wavelength	Refer to SFP Module	Refer to SFP Module	Refer to SFP Module
Network Management & Control			
System Configuration	Web Console; Telnet; CLI Console	Web Console; Telnet; CLI Console	Web Console; Telnet; CLI Console
Network Redundancy	STP, RSTP, MSTP; Ring Redundancy Recovery <20ms	STP, RSTP, Ring Redundancy Recovery <20ms	STP, RSTP, Ring Redundancy Recovery <10ms
IEEE 802.1Q VLAN	Port Based, Tag Based, Groups up to 256	Port Based, Tag Based, Groups up to 256	Port Based, Tag Based, Groups up to 256
QoS	Provides 4 Priority Queues per Port	Provides 4 Priority Queues per Port	Provides 4 Priority Queues per Port
IGMP Snooping/GMRP	IGMP v1,v2,v3 Up to 256 Multicast Groups & Query	IGMP v1, v2 and Query Mode. Up to 256 Groups	IGMP v1,v2,v3 Up to 256 Multicast Groups & Query
IEEE 802.1X Authentication	RADIUS Support	RADIUS Support	RADIUS Support
IP Security	Up to 10 Specific IP Addresses	Up to 10 Specific IP Addresses	Up to 10 Specific IP Addresses
System Warning Email Alert	By Exception Through Email	By Exception Through Email	By Exception Through Email
Serial Console	1*RS232 (RJ45 Port)	1*RS232 (RJ45 Port)	1*RS232 (DB9M)
Configuration Backup	-	-	-
Power Requirements			
Input Voltage	12~48VDC, Redundant Input	12~48VDC, Redundant Input	12~48VDC, Redundant Input / 100 ~ 240VAC
Connection	1 Removable 6-Contact Terminal Block	1 Removable 6-Contact Terminal Block	1 Removable 6-Contact Terminal Block; 100 ~ 240VAC w/ Power Cord
Reverse Polarity Protection	Yes	Yes	Yes
Power Consumption	22W	11.5W	18W
Relay Alarm Contact	1A @ DC24V	1A @ DC24V	1A @ DC24V
Mechanical Characteristics			
Housing	Metal, IP30 Protection	Metal, IP30 Protection	Metal, IP30 Protection
Dimensions	96.4 x 108.5 x 154 mm	72 x 152 x 105 mm	443.7 x 200 x 44 mm
Weight	6.5 lbs.	2.2 lbs.	9.3 lbs.
Mounting	DIN-Rail & Wall Mounting	DIN-Rail & Wall Mounting	1U 19" Rackmount
Environmental Limits			
Operating Temperature	STD: -10 to 60C EOT: -40 to 75C	STD: -10 to 70C EOT: -40 to 80C	STD: -10 to 70C EOT: -40 to 75C
Storage Temperature	-40 to 85C	-40 to 85C	-40 to 85C
Ambient Relative Humidity	5 to 95%, (Non-Condensing)	5 to 95%, (Non-Condensing)	5 to 95%, (Non-Condensing)
Regulatory Approvals			
Green	RoHS Compliant	RoHS Compliant	RoHS Compliant
Certifications	FCC, CE	FCC, CE, UL, C1D2	FCC, CE
Warranty	5 Years	5 Years	5 Years



Industrial 10/100 PoE
Unmanaged Ethernet Switches



Model Names	LNP-101AG-T	LNP-201AG-T	LNP-0500 Series	LNP-0500-24 Series	LNP-0501 Series
Specifications					
Total Port Count	1-Port	1-Port	5-Port	5-Port	5-Port
Technology					
Standards	IEEE 802.3, 802.3u, 802.3x, 802.3af	IEEE 802.3, 802.3u, 802.3x, 802.3at	IEEE 802.3, 802.3u, 802.3x, 802.3at	IEEE 802.3, 802.3u, 802.3x, 802.3at	IEEE 802.3, 802.3u, 802.3x, 802.3at
Processing Type	Store and Forward	Store and Forward	Store and Forward	Store and Forward	Store and Forward
Protocol	CSMA/CD	CSMA/CD	CSMA/CD	CSMA/CD	CSMA/CD
Switch Properties					
Transfer Rate	-	-	14,880pps for Ethernet Port 148,800pps for Fast Ethernet Port	14,880pps for Ethernet Port 148,800pps for Fast Ethernet Port	14,880pps for Ethernet Port 148,800pps for Fast Ethernet Port
MAC Table Size	-	-	2K	2K	2K
Interface					
Ethernet Port	1*10/100/1000Tx (Data & Power In) 1*10/100/1000Tx (Data)	1*10/100/1000Tx (Data & Power Out) 1*10/100/1000Tx (Data)	4*10/100Tx (PoE/PoE+) + 1*10/100Tx Auto MDI/MDI-X Connection	4*10/100Tx (PoE/PoE+) + 1*10/100Tx Auto MDI/MDI-X Connection	4*10/100Tx (PoE/PoE+) Auto MDI/MDI-X Connection
PoE Pin	Input Pin: 1,2,4,5 (V+V+), 3,6,7,8 (V-V-)	Output Pin: 1,2 (V+), 3,6 (V-)	Output Pin: 1,2 (V+), 3,6 (V-)	Output Pin: 1,2 (V+), 3,6 (V-)	Output Pin: 1,2 (V+), 3,6 (V-)
Fiber Port	-	-	-	-	(SC/ST) 1*100Fx (Multi-Mode 2Km / Single-Mode 30Km)
Wavelength	-	-	-	-	1310nm (Multi/Single mode)
Protection					
EFT Protection	3,000 VDC for Power Line	3,000 VDC for Power Line	2,000 VDC for Power Line	2,000 VDC for Power Line	2,000 VDC for Power Line
ESD Protection	6,000 VDC for Ethernet	6,000 VDC for Ethernet	6,000 VDC for Ethernet	6,000 VDC for Ethernet	6,000 VDC for Ethernet
Broadcast Storm Protection	-	-	7,926pps (Default)	7,926pps (Default)	7,926pps (Default)
Power Requirements					
Input Voltage	44~57VDC, Redundant Input	24/48VDC, Redundant Input	48~55VDC, Redundant Input	12~36VDC, Redundant Input	48~55VDC, Redundant Input
Overload Current Protection	Present	Present	Present	Present	Present
Connection	1 Removable 6-Contact Terminal Block	1 Removable 6-Contact Terminal Block	1 Removable 6-Contact Terminal Block	1 Removable 6-Contact Terminal Block	1 Removable 6-Contact Terminal Block
Reverse Polarity Protection	Yes	Yes	Yes	Yes	Yes
Power Output	12.95W Max. (0.539A @ 24VDC)	Max 30W Per PoE Port	Max 30W per PoE Port	Max 30W per PoE Port	Max 30W per PoE Port
Power Consumption	17.76W @ 48VDC	33.36W @ 24VDC	110W @ 48VDC; 130W @ 51~55VDC	145W @ 12~36VDC	110W@48VDC; 130W@51~55VDC
Mechanical Characteristics					
Housing	Metal, IP30 Protection	Metal, IP30 Protection	Metal, IP30 Protection	Metal, IP30 Protection	Metal, IP30 Protection
Dimensions	30 x 140 x 95 mm	30 x 140 x 95 mm	30 x 142 x 99 mm	46 x 142 x 99 mm	30 x 142 x 99 mm
Weight	1 lb.	1 lb.	1.1 lbs.	1.68 lbs.	1.1 lbs.
Mounting	DIN-Rail & Wall Mounting	DIN-Rail & Wall Mounting	DIN-Rail & Wall Mounting	DIN-Rail & Wall Mounting	DIN-Rail & Wall Mounting
Environmental Limits					
Operating Temperature	EOT: -40 to 80C	EOT: -40 to 75C	STD: -10 to 70C EOT: -40 to 75C	STD: -10 to 70C EOT: -40 to 75C	STD: -10 to 70C EOT: -40C to 75C
Storage Temperature	-40 to 85C	-40 to 85C	-40 to 85C	-40 to 85C	-40 to 85C
Ambient Relative Humidity	5 to 95%, (Non-Condensing)	5 to 95%, (Non-Condensing)	5 to 95%, (Non-Condensing)	5 to 95%, (Non-Condensing)	5 to 95%, (Non-Condensing)
Regulatory Approvals					
Green	RoHS Compliant	RoHS Compliant	RoHS Compliant	RoHS Compliant	RoHS Compliant
Certifications	FCC, CE, UL	FCC, CE, UL 508	FCC, CE, UL, UL 508	FCC, CE, UL, UL 508	FCC, CE, UL 508
Warranty	5 Years	5 Years	5 Years	5 Years	5 Years

Industrial 10/100 PoE Unmanaged Ethernet Switches



Model Names	LNP-0501-24 Series	LNP-0602 Series	LNP-0800 Series	LNP-0802-24 Series	LNP-800-M12-T
Specifications					
Total Port Count	5-Port	6-Port	8-Port	8-Port	8-Port
Technology					
Standards	802.3, 802.3u, 802.3x, 802.3at	802.3, 802.3u, 802.3x, 802.3at	802.3, 802.3u, 802.3x, 802.3at	802.3, 802.3u, 802.3x, 802.3at	802.3, 802.3u, 802.3x, 802.3af
Processing Type	Store and Forward	Store and Forward	Store and Forward	Store and Forward	Store and Forward
Protocol	CSMA/CD	CSMA/CD	CSMA/CD	CSMA/CD	CSMA/CD
Switch Properties					
Transfer Rate	14,880pps for Ethernet Port 148,800pps for Fast Ethernet Port	14,880pps for Ethernet Port 148,800pps for Fast Ethernet Port	14,880pps for Ethernet Port 148,800pps for Fast Ethernet Port	14,880pps for Ethernet Port 148,800pps for Fast Ethernet Port	14,880pps for Ethernet Port 48,800pps for Fast Ethernet Port
MAC Table Size	2K	2K	2K	2K	2K
Interface					
Ethernet Port	4*10/100Tx (PoE/PoE+) Auto MDI/MDI-X Connection	4*10/100Tx (PoE/PoE+) Auto MDI/MDI-X Connection	8*10/100Tx (PoE/PoE+) Auto MDI/MDI-X Connection	6*10/100Tx (PoE/PoE+) Auto MDI/MDI-X connection	8*10/100Tx (M12-4-pole D-coded, Female) Auto MDI/MDI-X Connection
PoE Pin	Output Pin: 1,2 (V+), 3,6 (V-)	Output Pin: 1,2 (V+), 3,6 (V-)	Output Pin: 1,2 (V+), 3,6 (V-)	Output Pin: 1,2 (V+), 3,6 (V-)	Output Pin: 1,2 (V+), 3,6 (V-)
Fiber Port	(SC/ST) 1*100Fxm (Multi-Mode 2Km / Single-Mode 30Km)	(SC/ST) 2*100Fxm (Multi-Mode 2Km / Single-Mode 30Km)	-	(SC/ST) 2*100Fxm (Multi-Mode 2Km / Single-Mode 30Km)	-
Wavelength	1310nm (Multi/Single-Mode)	1310nm (Multi/Single-Mode)	-	1310nm (Multi/Single-Mode)	-
Protection					
EFT Protection	2,000 VDC for Power Line	2,000 VDC for Power Line	2,000 VDC for Power Line	2,000 VDC for Power Line	3,000 VDC for Power Line
ESD Protection	6,000 VDC for Ethernet	6,000 VDC for Ethernet	6,000 VDC for Ethernet	6,000 VDC for Ethernet	6,000 VDC for Ethernet
Broadcast Storm Protection	7,926pps (Default)	7,926pps (Default)	7,926pps (Default)	7,926pps (Default)	-
Power Requirements					
Input Voltage	12~36VDC, Redundant Input	48~55VDC, Redundant Input	Redundant Input LNP-0800: 48~55VDC LNP-0800-24: 12~36VDC	12~36VDC, Redundant Input	24 / 48 VDC, Redundant Input
Overload Current Protection	Present	Present	Present	Present	Present
Connection	1 Removable 6-Contact Terminal Block	1 Removable 6-Contact Terminal Block	1 Removable 6-Contact Terminal Block	1 Removable 6-Contact Terminal Block	1*M12, 5-Pole A-coded, Male
Reverse Polarity Protection	Yes	Yes	Yes	Yes	-
Power Output	Max 30W per PoE Port	Max 30W per PoE Port	Max 30W per PoE Port	Max 30W per PoE Port	Max 15W per PoE Port
Power Consumption	145W @ 12~36VDC	110W@48VDC; 130W@51~55VDC	210W @ 48VDC; 250W @ 51~55VDC	145 Watts @ 12VDC; 200 Watts @ 24VDC	72 Watts Max. @ 24VDC
Mechanical Characteristics					
Housing	Metal, IP30 Protection	Metal, IP30 Protection	Metal, IP30 Protection	Metal, IP30 Protection	Metal, IP40 Protection
Dimensions	46 x 142 x 99 mm	30 x 142 x 99 mm	LNP-0800: 30 x 142 x 99 mm LNP-0800-24: 46 x 142 x 99 mm	46 x 142 x 99 mm	92 x 180 x 42 mm
Weight	1.68 lbs.	1.1 lbs.	LNP-0800: 1.1 lbs. LNP-0800-24: 1.68 lbs.	1.68 lbs.	4 lbs.
Mounting	DIN-Rail & Wall Mounting	DIN-Rail & Wall Mounting	DIN-Rail & Wall Mounting	DIN-Rail & Wall Mounting	DIN-Rail & Wall Mounting
Environmental Limits					
Operating Temperature	STD: -10 to 70 C EOT: -40 to 75 C	STD: -10 to 70 C EOT: -40 to 75 C	STD: -10 to 70 C EOT: -40 to 75 C	STD: -10 to 70 C EOT: -40 to 75 C	EOT: -40 to 80 C
Storage Temperature	-40 to 85 C	-40 to 85 C	-40 to 85 C	-40 to 85 C	-40 to 85 C
Ambient Relative Humidity	5 to 95%, (Non-Condensing)	5 to 95%, (Non-Condensing)	5 to 95%, (Non-Condensing)	5 to 95%, (Non-Condensing)	5 to 95%, (Non-Condensing)
Regulatory Approvals					
Green	RoHS Compliant	RoHS Compliant	RoHS Compliant	RoHS Compliant	RoHS Compliant
Certifications	FCC, CE, UL 508	FCC, CE, UL 508	FCC, CE, UL 508	FCC, CE, UL 508	FCC, CE, UL
Warranty	5 Years	5 Years	5 Years	5 Years	5 Years



Industrial 10/100/1000 PoE Unmanaged Ethernet Switches



Model Names	LNP-601AGH-SFP Series	LNP-602AGH Series	LNP-0702C-SFP Series	LNP-0702C-SFP-24 Series
Specifications				
Total Port Count	6-Port	6-Port	7-Port	7-Port
Technology				
Standards	IEEE 802.3,802.3u,802.3x,802.3ab,802.3z,802.3at	IEEE 802.3,802.3u,802.3x,802.3ab,802.3z,802.3at	IEEE 802.3,802.3u,802.3x,802.3,802.3at	IEEE 802.3,802.3u,802.3x,802.3ab,802.3z,802.3at
Processing Type	Store and Forward	Store and Forward	Store and Forward	Store and Forward
Protocol	CSMA/CD	CSMA/CD	CSMA/CD	CSMA/CD
Switch Properties				
Transfer Rate	14,880pps for Ethernet 148,800pps for Fast Ethernet 1,488,000pps for Gigabit Ethernet	14,880pps for Ethernet 148,800pps for Fast Ethernet 1,488,000pps for Gigabit Ethernet	14,880pps for Ethernet 148,800pps for Fast Ethernet	14,880pps for Ethernet 148,800pps for Fast Ethernet
Jumbo Frame Support	-	-	-	-
MAC Table Size	8K	8K	8K	8K
Interface				
Ethernet Port	4*10/100/1000Tx (PoE/PoE+) + 1*10/100/1000Tx Auto MDI/MDI-X Connection	4*10/100/1000Tx (PoE/PoE+) Auto MDI/MDI-X Connection	4*10/100Tx (PoE/PoE+) + 1*10/100Tx Auto MDI/MDI-X Connection	4*10/100Tx (PoE/PoE+) + 1*10/100Tx Auto MDI/MDI-X Connection
PoE Pin Assignment	Output Pin: 1,2 (V+), 3,6 (V-)	Output Pin: 1,2 (V+), 3,6 (V-)	Output Pin: 1,2 (V+), 3,6 (V-)	Output Pin: 1,2 (V+), 3,6 (V-)
Fiber Port	1*1000 SFP Slot	2*1000 SFP Slot	2*100/1000 SFP Slot	2*100/1000 SFP Slot
Wavelength	Refer to SFP Module	Refer to SFP Module	Refer to SFP Module	Refer to SFP Module
Protection				
EFT Protection	-	3,000 VDC for Power Line	2,000 VDC for Power Line	2,000 VDC for Power Line
ESD Protection	-	4,000 VDC for Ethernet	6,000 VDC for Ethernet	6,000 VDC for Ethernet
Broadcast Storm Protection	-	-	-	-
Power Requirements				
Input Voltage	50~57VDC, Redundant Input	48~57VDC, Redundant Input	48~55VDC, Redundant Input	12~36VDC, Redundant Input
Overload Current Protection	Present	Present	Present	Present
Connection	1 Removable 6-Contact Terminal Block	1 Removable 6-Contact Terminal Block	1 Removable 6-Contact Terminal Block	1 Removable 6-Contact Terminal Block
Reverse Polarity Protection	-	Yes	Yes	Yes
Power Output	Max 30W per PoE Port	Max 30W per PoE Port	Max 30W per PoE Port	Max 30W per PoE Port
Power Consumption	6.3W	129.9W	130W	145W
Mechanical Characteristics				
Housing	Metal, IP30 Protection	Metal, IP30 Protection	Metal, IP30 Protection	Metal, IP30 Protection
Dimensions	26.1 x 94.9 x 144.3 mm	59.6 x 152 x 105 mm	30 x 142 x 99 mm	46 x 142 x 99 mm
Weight	1.8 lbs.	1 lb.	1.1 lbs.	1.7 lbs.
Mounting	DIN-Rail & Wall Mounting	DIN-Rail & Wall Mounting	DIN-Rail & Wall Mounting	DIN-Rail & Wall Mounting
Environmental Limits				
Operating Temperature	STD: -10 to 60C EOT: -40 to 80C	STD: -10 to 60C EOT: -40 to 80C	STD: -10 to 70C EOT: -40 to 75C	STD: -10 to 70C EOT: -40 to 75C
Storage Temperature	-40 to 85C	-40 to 85C	-40 to 85C	-40 to 85C
Ambient Relative Humidity	5 to 95%, (Non-Condensing)	5 to 95%, (Non-Condensing)	5 to 95%, (Non-Condensing)	5 to 95%, (Non-Condensing)
Regulatory Approvals				
Green	RoHS Compliant	RoHS Compliant	RoHS Compliant	RoHS Compliant
Certifications	FCC, CE	FCC, CE, UL 508, C1D2	FCC, CE, UL 508	FCC, CE, UL 508
Warranty	5 Years	5 Years	5 Years	5 Years

Industrial 10/100/1000 PoE Unmanaged Ethernet Switches



Model Names	LNP-0702G-SFP Series	LNP-0702G-SFP-24 Series	LNP-800AGH Series	LNP-800AGH-24 Series
Specifications				
Total Port Count	7-Port	7-Port	8-Port	8-Port
Technology				
Standards	IEEE 802.3,802.3u,802.3x,802.3ab,802.3z,802.3at	IEEE 802.3,802.3u,802.3x,802.3ab,802.3z,802.3at	IEEE 802.3,802.3u,802.3x,802.3ab,802.3at	IEEE 802.3,802.3u,802.3x,802.3ab,802.3at
Processing Type	Store and Forward	Store and Forward	Store and Forward	Store and Forward
Protocol	CSMA/CD	CSMA/CD	CSMA/CD	CSMA/CD
Switch Properties				
Transfer Rate	14,880pps for Ethernet 148,800pps for Fast Ethernet 1,488,000pps for Gigabit Ethernet	14,880pps for Ethernet 148,800pps for Fast Ethernet 1,488,000pps for Gigabit Ethernet	14,880pps for Ethernet 148,800pps for Fast Ethernet 1,488,000pps for Gigabit Ethernet	14,880pps for Ethernet 148,800pps for Fast Ethernet 1,488,000pps for Gigabit Ethernet
Jumbo Frame Support	9.6Kbytes	9.6Kbytes	9.6Kbytes	9.6Kbytes
MAC Table Size	8K	8K	8K	8K
Interface				
Ethernet Port	4*10/100/1000Tx (PoE/PoE+) + 1*10/100/1000Tx Auto MDI/MDI-X Connection	4*10/100/1000Tx (PoE/PoE+) + 1*10/100/1000Tx Auto MDI/MDI-X Connection	8*10/100/1000Tx (PoE/PoE+) Auto MDI/MDI-X Connection	8*10/100/1000Tx (PoE/PoE+) Auto MDI/MDI-X Connection
PoE Pin Assignment	Output Pin: 1,2 (V+), 3,6 (V-)	Output Pin: 1,2 (V+), 3,6 (V-)	Output Pin: 1,2 (V+), 3,6 (V-)	Output Pin: 1,2 (V+), 3,6 (V-)
Fiber Port	2*100/1000 SFP Slot	2*100/1000 SFP Slot	-	-
Wavelength	Refer to SFP Module	Refer to SFP Module	-	-
Protection				
EFT Protection	2,000 VDC for Power Line	2,000 VDC for Power Line	2,000 VDC for Power Line	2,000 VDC for Power Line
ESD Protection	6,000 VDC for Ethernet	6,000 VDC for Ethernet	6,000 VDC for Ethernet	6,000 VDC for Ethernet
Broadcast Storm Protection	-	-	7,926pps (default)	7,926pps (default)
Power Requirements				
Input Voltage	48~55VDC, Redundant Input	12~36VDC, Redundant Input	48~57VDC, Redundant Input	12~36VDC, Redundant Input
Overload Current Protection	Present	Present	Present	Present
Connection	1 Removable 6-Contact Terminal Block	1 Removable 6-Contact Terminal Block	1 Removable 6-Contact Terminal Block	1 Removable 6-Contact Terminal Block
Reverse Polarity Protection	Yes	Yes	Yes	Yes
Power Output	Max 30W per PoE Port	Max 30W per PoE Port	Max 30W per PoE Port	Max 30W per PoE Port
Power Consumption	145W	145W	245W	265W
Mechanical Characteristics				
Housing	Metal, IP30 Protection	Metal, IP30 Protection	Metal, IP30 Protection	Metal, IP30 Protection
Dimensions	30 x 142 x 99 mm	46 x 142 x 99 mm	26.1 x 94.9 x 144.3 mm	41.0 x 94.9 x 144.3 mm
Weight	1.1 lbs.	1.7 lbs.	1.68 lbs.	2.05 lbs.
Mounting	DIN-Rail & Wall Mounting	DIN-Rail & Wall Mounting	DIN-Rail & Wall Mounting	DIN-Rail & Wall Mounting
Environmental Limits				
Operating Temperature	STD: -10 to 70C EOT: -40 to 75C	STD: -10 to 70C EOT: -40 to 75C	STD: -10 to 60C EOT: -40 to 75C	STD: -10 to 60C EOT: -40 to 75C
Storage Temperature	-40 to 85C	-40 to 85C	-40 to 85C	-40 to 85C
Ambient Relative Humidity	5 to 95%, (Non-Condensing)	5 to 95%, (Non-Condensing)	5 to 95%, (Non-Condensing)	5 to 95%, (Non-Condensing)
Regulatory Approvals				
Green	RoHS Compliant	RoHS Compliant	RoHS Compliant	RoHS Compliant
Certifications	FCC, CE, UL 508	FCC, CE, UL 508	FCC, CE, UL	FCC, CE, UL
Warranty	5 Years	5 Years	5 Years	5 Years



Industrial 10/100/1000 PoE
Unmanaged Ethernet Switches



Model Names	LNP-0802C-SFP Series	LNP-0802C-SFP-24 Series	LNP-0802G-SFP Series	LNP-0802G-SFP-24 Series
Specifications				
Total Port Count	8-Port	8-Port	8-Port	8-Port
Technology				
Standards	IEEE 802.3, 802.3u, 802.3ab, 802.3z, 802.3x	IEEE 802.3, 802.3u, 802.3ab, 802.3z, 802.3x	IEEE 802.3, 802.3u, 802.3ab, 802.3z, 802.3x	IEEE 802.3, 802.3u, 802.3ab, 802.3z, 802.3x
Processing Type	Store and Forward	Store and Forward	Store and Forward	Store and Forward
Protocol	CSMA/CD	CSMA/CD	CSMA/CD	CSMA/CD
Switch Properties				
Transfer Rate	14,880pps for Ethernet 148,800pps for Fast Ethernet 1,488,000pps for Gigabit Ethernet	14,880pps for Ethernet 148,800pps for Fast Ethernet 1,488,000pps for Gigabit Ethernet	14,880pps for Ethernet 148,800pps for Fast Ethernet 1,488,000pps for Gigabit Ethernet	14,880pps for Ethernet 148,800pps for Fast Ethernet 1,488,000pps for Gigabit Ethernet
Jumbo Frame Support	-	-	9.6Kbytes	9.6Kbytes
MAC Table Size	8K	8K	8K	8K
Interface				
Ethernet Port	6*10/100Tx (PoE/PoE+), Auto MDI/MDI-X Connection	6*10/100Tx (PoE/PoE+), Auto MDI/MDI-X Connection	6*10/100/1000Tx (PoE/PoE+) Auto MDI/MDI-X Connection	6*10/100/1000Tx (PoE/PoE+) Auto MDI/MDI-X Connection
PoE Pin Assignment	Output Pin: 1,2 (V+), 3,6 (V-)	Output Pin: 1,2 (V+), 3,6 (V-)	Output Pin: 1,2 (V+), 3,6 (V-)	Output Pin: 1,2 (V+), 3,6 (V-)
Fiber Port	2*GigE Combo (2*10/100/1000-RJ45, 2*100/1000 SFP)	2*GigE Combo (2*10/100/1000-RJ45, 2*100/1000 SFP)	2*100/1000 SFP	2*100/1000 SFP
Wavelength	Refer to SFP Module	Refer to SFP Module	Refer to SFP Module	Refer to SFP Module
Protection				
EFT Protection	2,000 VDC for Power Line	2,000 VDC for Power Line	2,000 VDC for Power Line	2,000 VDC for Power Line
ESD Protection	6,000 VDC for Ethernet	6,000 VDC for Ethernet	6,000 VDC for Ethernet	6,000 VDC for Ethernet
Broadcast Storm Protection	-	-	-	-
Power Requirements				
Input Voltage	48~55VDC, Redundant Input	12~36VDC, Redundant Input	48~55VDC, Redundant Input	12~36VDC, Redundant Input
Overload Current Protection	Present	Present	Present	Present
Connection	1 Removable 6-Contact Terminal Block	1 Removable 6-Contact Terminal Block	1 Removable 6-Contact Terminal Block	1 Removable 6-Contact Terminal Block
Reverse Polarity Protection	Yes	Yes	Yes	Yes
Power Output	Max 30W per PoE Port	Max 30W per PoE Port	Max 30W per PoE Port	Max 30W per PoE Port
Power Consumption	187.5W	189W	187.5W	189W
Mechanical Characteristics				
Housing	Metal, IP30 Protection	Metal, IP30 Protection	Metal, IP30 Protection	Metal, IP30 Protection
Dimensions	46 x 142 x 99 mm	46 x 142 x 99 mm	46 x 142 x 99 mm	46 x 142 x 99 mm
Weight	3 lbs.	3 lbs.	3 lbs.	3 lbs.
Mounting	DIN-Rail & Wall Mounting	DIN-Rail & Wall Mounting	DIN-Rail & Wall Mounting	DIN-Rail & Wall Mounting
Environmental Limits				
Operating Temperature	STD: -10 to 70C EOT: -40 to 75C	STD: -10 to 70C EOT: -40 to 75C	STD: -10 to 70C EOT: -40 to 75C	STD: -10 to 70C EOT: -40 to 75C
Storage Temperature	-40 to 85C	-40 to 85C	-40 to 85C	-40 to 85C
Ambient Relative Humidity	5 to 95%, (Non-Condensing)	5 to 95%, (Non-Condensing)	5 to 95%, (Non-Condensing)	5 to 95%, (Non-Condensing)
Regulatory Approvals				
Green	RoHS Compliant	RoHS Compliant	RoHS Compliant	RoHS Compliant
Certifications	FCC, CE, UL 508	FCC, CE, UL 508	FCC, CE, UL 508	FCC, CE, UL 508
Warranty	5 Years	5 Years	5 Years	5 Years

Industrial 10/100/1000 PoE Unmanaged Ethernet Switches



Model Names	LNP-1002C-SFP Series	LNP-1002C-SFP-24 Series	LNP-1002G-SFP Series	LNP-1002G-SFP-24 Series	LNP-2804G-SFP Series
Specifications					
Total Port Count	10-Port	10-Port	10-Port	10-Port	28-Port
Technology					
Standards	IEEE 802.3,802.3u,802.3x,802.3ab,802.3z,802.3at	IEEE 802.3,802.3u,802.3x,802.3ab,802.3at	IEEE 802.3,802.3u,802.3x,802.3ab,802.3at	IEEE 802.3,802.3u,802.3x,802.3ab,802.3z,802.3at	IEEE 802.3,802.3u,802.3x,802.3ab,802.3z,802.3at
Processing Type	Store and Forward	Store and Forward	Store and Forward	Store and Forward	Store and Forward
Protocol	CSMA/CD	CSMA/CD	CSMA/CD	CSMA/CD	CSMA/CD
Switch Properties					
Transfer Rate	14,880pps for Ethernet 148,800pps for Fast Ethernet 1,488,000pps for Gigabit Ethernet	14,880pps for Ethernet 148,800pps for Fast Ethernet 1,488,000pps for Gigabit Ethernet	14,880pps for Ethernet 148,800pps for Fast Ethernet 1,488,000pps for Gigabit Ethernet	14,880pps for Ethernet 148,800pps for Fast Ethernet 1,488,000pps for Gigabit Ethernet	14,880pps for Ethernet 148,800pps for Fast Ethernet 1,488,000pps for Gigabit Ethernet
Jumbo Frame Support	9.6Kbytes	9.6Kbytes	9.6Kbytes	9.6Kbytes	9.6Kbytes
MAC Table Size	8K	8K	8K	8K	8K
Interface					
Ethernet Port	8*10/100Tx (PoE/PoE+) Auto MDI/MDI-X Connection	8*10/100Tx (PoE/PoE+) Auto MDI/MDI-X Connection	8*10/100/1000Tx (PoE/PoE+) Auto MDI/MDI-X Connection	8*10/100/1000Tx (PoE/PoE+) Auto MDI/MDI-X Connection	24*10/100/1000Tx (PoE/PoE+) Auto MDI/MDI-X Connection
PoE Pin Assignment	Output Pin: 1,2 (V+), 3,6 (V-)	Output Pin: 1,2 (V+), 3,6 (V-)	Output Pin: 1,2 (V+), 3,6 (V-)	Output Pin: 1,2 (V+), 3,6 (V-)	Output Pin: 1,2 (V+), 3,6 (V-)
Fiber Port	2* Gigabit Combo (2* 10/100/1000 T RJ45+ 2*100/1000 SFP)	2* Gigabit Combo (2* 10/100/1000 T RJ45+ 2*100/1000 SFP)	2*100/1000 SFP Slot	2*100/1000 SFP Slot	4*100/1000 SFP Slot
Wavelength	Refer to SFP Module	Refer to SFP Module	Refer to SFP Module	Refer to SFP Module	Refer to SFP Module
Protection					
EFT Protection	2,000 VDC for Power Line	2,000 VDC for Power Line	2,000 VDC for Power Line	2,000 VDC for Power Line	2,000 VDC for Power Line
ESD Protection	6,000 VDC for Ethernet	6,000 VDC for Ethernet	6,000 VDC for Ethernet	6,000 VDC for Ethernet	6,000 VDC for Ethernet
Broadcast Storm Protection	-	-	-	-	-
Power Requirements					
Input Voltage	48~55VDC, Redundant Input	12~36VDC, Redundant Input	48~55VDC, Redundant Input	12~36VDC, Redundant Input	44~55VDC, Redundant Input
Overload Current Protection	Present	Present	Present	Present	Present
Connection	1 Removable 6-Contact Terminal Block	1 Removable 6-Contact Terminal Block	1 Removable 6-Contact Terminal Block	1 Removable 6-Contact Terminal Block	1 Removable 6-Contact Terminal Block
Reverse Polarity Protection	Yes	Yes	Yes	Yes	Yes
Power Output	Max 30W per PoE Port	Max 30W per PoE Port	Max 30W per PoE Port	Max 30W per PoE Port	Max 30W per PoE Port
Power Consumption	260W	285W	260W	285W	735W
Mechanical Characteristics					
Housing	Metal, IP30 Protection	Metal, IP30 Protection	Metal, IP30 Protection	Metal, IP30 Protection	Metal, IP30 Protection
Dimensions	46 x 142 x 99 mm	46 x 142 x 99 mm	46 x 142 x 99 mm	46 x 142 x 99 mm	440 x 280 x 44 mm
Weight	2 lbs.	2.1 lbs.	2.1 lbs.	2.1 lbs.	9.3 lbs.
Mounting	DIN-Rail & Wall Mounting	DIN-Rail & Wall Mounting	DIN-Rail & Wall Mounting	DIN-Rail & Wall Mounting	1U 19" Rackmount
Environmental Limits					
Operating Temperature	STD: -10 to 70C EOT: -40 to 75C	STD: -10 to 70C EOT: -40 to 75C	STD: -10 to 70C EOT: -40 to 75C	STD: -10 to 70C EOT: -40 to 75C	STD: -10 to 70C EOT: -40 to 75C
Storage Temperature	-40 to 85C	-40 to 85C	-40 to 85C	-40 to 85C	-40 to 85C
Ambient Relative Humidity	5 to 95%, (Non-Condensing)	5 to 95%, (Non-Condensing)	5 to 95%, (Non-Condensing)	5 to 95%, (Non-Condensing)	5 to 95%, (Non-Condensing)
Regulatory Approvals					
Green	RoHS Compliant	RoHS Compliant	RoHS Compliant	RoHS Compliant	RoHS Compliant
Certifications	FCC, CE, UL 508	FCC, CE, UL 508	FCC, CE, UL 508	FCC, CE, UL 508	FCC, CE, UL 508
Warranty	5 Years	5 Years	5 Years	5 Years	5 Years



Industrial 10/100 PoE Managed Switches



Model Names	LMP-0500 Series	LMP-0501 Series	LMP-0501-24 Series
Specifications			
Total Port Count	5-Port	5-Port	5-Port
Technology			
Standards	IEEE 802.3, 802.3u, 802.3x, 802.1d, 802.1w, 802.1s, 802.1p, 802.1Q, 802.1ab, 802.3at, ITU-T G.8032	IEEE 802.3, 802.3u, 802.3x, 802.1d, 802.1w, 802.1s, 802.1p, 802.1Q, 802.1ab, 802.3at, ITU-T G.8032	IEEE 802.3, 802.3u, 802.3x, 802.1d, 802.1w, 802.1s, 802.1p, 802.1Q, 802.1ab, 802.3at, ITU-T G.8032
Protocol	IGMP, GVRP, SNMPv1/v2c, DHCP Client, TFTP, SNMP, SMTP, RMON, HTTP, Syslog	IGMP, GVRP, SNMPv1/v2c, DHCP Client, TFTP, SNMP, SMTP, RMON, HTTP, Syslog	IGMP, GVRP, SNMPv1/v2c, DHCP Client, TFTP, SNMP, SMTP, RMON, HTTP, Syslog
MAC Table Size	8K	8K	8K
Interface			
Ethernet Port	4*10/100Tx (PoE/PoE+) + 1*10/100Tx Auto MDI/MDI-X Connection	4*10/100Tx (PoE/PoE+) Auto MDI/MDI-X Connection	4*10/100Tx (PoE/PoE+) Auto MDI/MDI-X Connection
PoE Pin Assignment	Output Pin: 1,2 (V+), 3,6 (V-)	Output Pin: 1,2 (V+), 3,6 (V-)	Output Pin: 1,2 (V+), 3,6 (V-)
Fiber Port	-	(SC/ST) 1*100Fx (Multi-Mode 2Km, Single-Mode 30Km)	(SC/ST) 1*100Fx (Multi-Mode 2Km, Single-Mode 30Km)
Wavelength	-	1301nm (Multi/Single-Mode)	1301nm (Multi/Single-Mode)
Network Management & Control			
System Configuration	Web Console	Web Console	Web Console
Network Redundancy	STP, RSTP, MSTP G.8032 ERPS Ring Redundancy Recovery <50ms	STP, RSTP, MSTP G.8032 ERPS Ring Redundancy Recovery <50ms	STP, RSTP, MSTP G.8032 ERPS Ring Redundancy Recovery <50ms
IEEE 802.1Q VLAN	Port Based, Tag Based, Groups up to 256	Port Based, Tag Based, Groups up to 256	Port Based, Tag Based, Groups up to 256
QoS	Provides 4 Priority Queues per Port	Provides 4 Priority Queues per Port	Provides 4 Priority Queues per Port
IGMP Snooping/GMRP	IGMP v1, v2 and Query Mode. Up to 256 Groups	IGMP v1, v2 and Query Mode. Up to 256 Groups	IGMP v1, v2 and Query Mode. Up to 256 Groups
IEEE 802.1X Authentication	RADIUS Support	RADIUS Support	RADIUS Support
IP Security	Up to 10 Specific IP Addresses	Up to 10 Specific IP Addresses	Up to 10 Specific IP Addresses
PoE Auto-Ping Check	Yes	Yes	Yes
System Warning Email Alert	By Exception Through Email	By Exception Through Email	By Exception Through Email
Serial Console	1*RS232 (RJ45 Port)	1*RS232 (RJ45 Port)	1*RS232 (RJ45 Port)
Configuration Backup	1* USB 2.0 Port	1* USB 2.0 Port	1* USB 2.0 Port
Power Requirements			
Input Voltage	48~55VDC, Redundant Input	48~55VDC, Redundant Input	12~36VDC, Redundant Input
Connection	1 Removable 6-Contact Terminal Block	1 Removable 6-Contact Terminal Block	1 Removable 6-Contact Terminal Block
Reverse Polarity Protection	Yes	Yes	Yes
PoE Power Output	Max 30W per PoE Port	Max 30W per PoE Port	Max 30W per PoE Port
Power Consumption	123W	125W	145W
Relay Alarm Contact	1A @ 24VDC	1A @ 24VDC	1A @ 24VDC
Mechanical Characteristics			
Housing	Metal, IP30 Protection	Metal, IP30 Protection	Metal, IP30 Protection
Dimensions	46 x 142 x 99 mm	46 x 142 x 99 mm	46 x 142 x 99 mm
Weight	3 lbs.	3 lbs.	3 lbs.
Mounting	DIN-Rail & Wall Mounting	DIN-Rail & Wall Mounting	DIN-Rail & Wall Mounting
Environmental Limits			
Operating Temperature	STD: -10 to 70C EOT: -40 to 75C	STD: -10 to 70C EOT: -40 to 75C	STD: -10 to 70C EOT: -40 to 75C
Storage Temperature	-40 to 85C	-40 to 85C	-40 to 85C
Ambient Relative Humidity	5 to 95%, (Non-Condensing)	5 to 95%, (Non-Condensing)	5 to 95%, (Non-Condensing)
Regulatory Approvals			
Green	RoHS Compliant	RoHS Compliant	RoHS Compliant
Certifications	FCC, CE, UL 508	FCC, CE, UL 508	FCC, CE, UL 508
Warranty	5 Years	5 Years	5 Years

Industrial 10/100 PoE Managed Switches



Model Names	LNP-600N	LMP-0600 Series (NEW)
Specifications		
Total Port Count	6-Port	6-Port
Technology		
Standards	IEEE 802.3, 802.3u, 802.3x, 802.1d, 802.1Q, 802.1ab, 802.3af PoE	IEEE 802.3, 802.3u, 802.3x, 802.1d, 802.1w, 802.1s, 802.1p, 802.1Q, 802.1ab, 802.3at PoE+
Protocol	SNMPv1/v2c, DHCP Client, TFTP, SNMP, SMTP, HTTP, Syslog	SNMPv1/v2c, DHCP Client, TFTP, SNMP, SMTP, HTTP, Syslog
MAC Table Size	8K	8K
Interface		
Ethernet Port	4*10/100Tx (PoE) + 2*10/100Tx Auto MDI/MDI-X Connection	4*10/100Tx (PoE/PoE+) + 2*10/100Tx Auto MDI/MDI-X Connection
PoE Pin Assignment	Output Pin: 1,2 (V+), 3,6 (V-)	Output Pin: 1,2 (V+), 3,6 (V-)
Fiber Port	-	-
Wavelength	-	-
Network Management & Control		
System Configuration	Web Console	Web Console
Network Redundancy	STP, RSTP, Ring Redundancy Recovery <10ms	STP, RSTP, MSTP G.8032 ERPS Ring Redundancy Recovery <50ms
IEEE 802.1Q VLAN	Port Based	Port Based
QoS	-	Provides 4 Priority Queues per Port
IGMP Snooping/GMRP	-	IGMP v1, v2 and Query Mode. Up to 256 Groups
IEEE 802.1X Authentication	-	RADIUS Support
IP Security	Up to 10 Specific IP Addresses	Up to 10 Specific IP Addresses
PoE Auto-Ping Check	Yes	Yes
System Warning Email Alert	By Exception Through Email	By Exception Through Email
Serial Console	-	1*RS232 (RJ45 Port)
Configuration Backup	-	1* USB 2.0 Port
Power Requirements		
Input Voltage	48, Redundant Input	48~55VDC, Redundant Input
Connection	1 Removable 6-Contact Terminal Block	1 Removable 6-Contact Terminal Block
Reverse Polarity Protection	Yes	Yes
PoE Power Output	Max 25W per PoE Port	Max 30W per PoE Port
Power Consumption	105W	125W
Relay Alarm Contact	1A @ 24VDC	1A @ 24VDC
Mechanical Characteristics		
Housing	Metal, IP30 Protection	Metal, IP30 Protection
Dimensions	52 x 106.1 x 144.3 mm	46 x 142 x 99 mm
Weight	3.15 lbs.	3.1 lbs.
Mounting	DIN-Rail & Wall Mounting	DIN-Rail & Wall Mounting
Environmental Limits		
Operating Temperature	STD: -10 to 60C	STD: -10 to 70C EOT: -40 to 75C
Storage Temperature	-40 to 85C	-40 to 85C
Ambient Relative Humidity	5 to 95%, (Non-Condensing)	5 to 95%, (Non-Condensing)
Regulatory Approvals		
Green	RoHS Compliant	RoHS Compliant
Certifications	FCC, CE	FCC, CE, UL 508
Warranty	5 Years	5 Years



Industrial 10/100 PoE Managed Switches



Model Names	LNP-602N Series	LMP-0602 Series (NEW)	LMP-0602-24 Series (NEW)
Specifications			
Total Port Count	6-Port	6-Port	6-Port
Technology			
Standards	IEEE 802.3, 802.3u, 802.3x, 802.1d STP / IEEE802.1w, 802.1Q, 802.1ab, 802.3af PoE	IEEE 802.3, 802.3u, 802.3x, 802.1d STP / IEEE802.1w, 802.1s, 802.1p, 802.1Q, 802.1ab, 802.3at PoE+ ITU-T G.8032	IEEE 802.3, 802.3u, 802.3x, 802.1d STP / IEEE802.1w, 802.1s, 802.1p, 802.1Q, 802.1ab, 802.3at PoE+ ITU-T G.8032
Protocol	SNMPv1/v2c, DHCP Client, TFTP, SNMP, SMTP, HTTP, Syslog	SNMPv1/v2c, DHCP Client, TFTP, SNMP, SMTP, HTTP, Syslog	SNMPv1/v2c, DHCP Client, TFTP, SNMP, SMTP, HTTP, Syslog
MAC Table Size	8K	8K	8K
Interface			
Ethernet Port	4*10/100Tx (PoE) Auto MDI/MDI-X Connection	4*10/100Tx (PoE/PoE+) Auto MDI/MDI-X Connection	4*10/100Tx (PoE/PoE+) Auto MDI/MDI-X Connection
PoE Pin Assignment	Output Pin: 1,2 (V+), 3,6 (V-)	Output Pin: 1,2 (V+), 3,6 (V-)	Output Pin: 1,2 (V+), 3,6 (V-)
Fiber Port	(SC/ST) 2*100Fx (Multi-Mode 2Km, Single-Mode 30Km)	(SC/ST) 2*100Fx (Multi-Mode 2Km, Single-Mode 30Km)	(SC/ST) 2*100Fx (Multi-Mode 2Km, Single-Mode 30Km)
Wavelength	1310nm (Multi/Single-Mode)	1310nm (Multi/Single-Mode)	1310nm (Multi/Single-Mode)
Network Management & Control			
System Configuration	Web Console	Web Console	Web Console
Network Redundancy	STP, RSTP, Ring Redundancy Recovery <10ms	STP, RSTP, MSTP G.8032 ERPS Ring Redundancy Recovery <50ms	STP, RSTP, MSTP G.8032 ERPS Ring Redundancy Recovery <50ms
IEEE 802.1Q VLAN	Port Based	Port Based	Port Based
QoS	-	Provides 4 Priority Queues per Port	Provides 4 Priority Queues per Port
IGMP Snooping/GMRP	-	IGMP v1, v2 and Query Mode. Up to 256 Groups	IGMP v1, v2 and Query Mode. Up to 256 Groups
IEEE 802.1X Authentication	-	RADIUS Support	RADIUS Support
IP Security	Up to 10 Specific IP Addresses	Up to 10 Specific IP Addresses	Up to 10 Specific IP Addresses
PoE Auto-Ping Check	Yes	Yes	Yes
System Warning Email Alert	By Exception Through Email	By Exception Through Email	By Exception Through Email
Serial Console	-	1*RS232 (RJ45 Port)	1*RS232 (RJ45 Port)
Configuration Backup	-	1*USB 2.0 Port	1*USB 2.0 Port
Power Requirements			
Input Voltage	48, Redundant Input	48~55VDC, Redundant Input	12~36VDC, Redundant Input
Connection	1 Removable 6-Contact Terminal Block	1 Removable 6-Contact Terminal Block	1 Removable 6-Contact Terminal Block
Reverse Polarity Protection	Yes	Yes	Yes
PoE Power Output	Max 25W per PoE Port	Max 30W per PoE Port	Max 30W per PoE Port
Power Consumption	107W	140W	148W
Relay Alarm Contact	1A @ 24VDC	1A @ 24VDC	1A @ 24VDC
Mechanical Characteristics			
Housing	Metal, IP30 Protection	Metal, IP30 Protection	Metal, IP30 Protection
Dimensions	52 x 106.1 x 144.3 mm	46 x 142 x 99 mm	46 x 142 x 99 mm
Weight	3.15 lbs.	3.5 lbs.	3.5 lbs.
Mounting	DIN-Rail & Wall Mounting	DIN-Rail & Wall Mounting	DIN-Rail & Wall Mounting
Environmental Limits			
Operating Temperature	STD: -10 to 60C EOT: -40 to 70C	STD: -10 to 70C EOT: -40 to 75C	STD: -10 to 70C EOT: -40 to 75C
Storage Temperature	-40 to 85C	-40 to 85C	-40 to 85C
Ambient Relative Humidity	5 to 95%, (Non-Condensing)	5 to 95%, (Non-Condensing)	5 to 95%, (Non-Condensing)
Regulatory Approvals			
Green	RoHS Compliant	RoHS Compliant	RoHS Compliant
Certifications	FCC, CE	FCC, CE, UL 508	FCC, CE, UL 508
Warranty	5 Years	5 Years	5 Years

Industrial 10/100/1000 PoE Managed Switches



Model Names	LMP-0601G-SFP Series	LMP-0601G-SFP-24 Series	LMP-0702G-SFP Series
Specifications			
Total Port Count	6-Port	6-Port	7-Port
Technology			
Standards	IEEE 802.3, 802.3u, 802.3ab, 802.3z, 802.3x, 802.3ad, 802.1d STP / IEEE802.1w, 802.1s, 802.1p, 802.1Q, 802.1ab, 802.3at PoE+ ITU-T G.8032	IEEE 802.3, 802.3u, 802.3ab, 802.3z, 802.3x, 802.3ad, 802.1d STP / IEEE802.1w, 802.1s, 802.1p, 802.1Q, 802.1ab, 802.3at PoE+ ITU-T G.8032	IEEE 802.3, 802.3u, 802.3ab, 802.3z, 802.3x, 802.3ad, 802.1d STP / IEEE802.1w, 802.1s, 802.1p, 802.1Q, 802.1ab, 802.3at PoE+ ITU-T G.8032
Protocol	IGMPv1/v2/v3, GVRP, SNMPv1/v2c/v3, DHCP Server/Client, SNTP, RMON, HTTP, Telnet, Syslog, LLDP, IPv6, LACP	IGMPv1/v2/v3, GVRP, SNMPv1/v2c/v3, DHCP Server/Client, SNTP, RMON, HTTP, Telnet, Syslog, LLDP, IPv6, LACP	IGMPv1/v2/v3, GVRP, SNMPv1/v2c/v3, DHCP Server/Client, SNTP, RMON, HTTP, Telnet, Syslog, LLDP, IPv6, LACP
Jumbo Frame Support	9.6Kbytes	9.6Kbytes	9.6Kbytes
MAC Table Size	8K	8K	8K
Interface			
Ethernet Port	4*10/100/1000Tx (PoE/PoE+) + 1*10/100/1000Tx Auto MDI/MDI-X Connection	4*10/100/1000Tx (PoE/PoE+) + 1*10/100/1000Tx Auto MDI/MDI-X Connection	4*10/100/1000Tx (PoE/PoE+) + 1*10/100/1000Tx Auto MDI/MDI-X Connection
PoE Pin Assignment	Output Pin: 1,2 (V+), 3,6 (V-)	Output Pin: 1,2 (V+), 3,6 (V-)	Output Pin: 1,2 (V+), 3,6 (V-)
Fiber Port	1*100/1000 SFP Slot	1*100/1000 SFP Slot	2*100/1000 SFP Slot
Wavelength	Refer to SFP Module	Refer to SFP Module	Refer to SFP Module
Network Management & Control			
System Configuration	Web Console	Web Console	Web Console
Network Redundancy	STP, RSTP, MSTP G.8032 ERPS Ring Redundancy Recovery <50ms	STP, RSTP, MSTP G.8032 ERPS Ring Redundancy Recovery <50ms	STP, RSTP, MSTP G.8032 ERPS Ring Redundancy Recovery <50ms
IEEE 802.1Q VLAN	Port Based, Tag Based, Groups up to 256	Port Based, Tag Based, Groups up to 256	Port Based, Tag Based, Groups up to 256
QoS	Provides 4 Priority Queues per Port	Provides 4 Priority Queues per Port	Provides 4 Priority Queues per Port
IGMP Snooping/GMRP	IGMP v1, v2 and Query Mode. Up to 256 Groups	IGMP v1, v2 and Query Mode. Up to 256 Groups	IGMP v1, v2 and Query Mode. Up to 256 Groups
IEEE 802.1X Authentication	RADIUS Support	RADIUS Support	RADIUS Support
IP Security	Up to 10 Specific IP Addresses	Up to 10 Specific IP Addresses	Up to 10 Specific IP Addresses
PoE Ping Alert	Yes	Yes	Yes
System Warning Email Alert	By Exception Through Email	By Exception Through Email	By Exception Through Email
Serial Console	1*RS232 (RJ45 Port)	1*RS232 (RJ45 Port)	1*RS232 (RJ45 Port)
Configuration Backup	1*USB 2.0 Port	1*USB 2.0 Port	1*USB 2.0 Port
Power Requirements			
Input Voltage	48~55VDC, Redundant Input	12~36VDC, Redundant Input	48~55VDC, Redundant Input
Connection	1 Removable 6-Contact Terminal Block	1 Removable 6-Contact Terminal Block	1 Removable 6-Contact Terminal Block
Reverse Polarity Protection	Yes	Yes	Yes
PoE Power Output	Max 30W per PoE Port	Max 30W per PoE Port	Max 30W per PoE Port
Power Consumption	125W	135W	130W
Relay Alarm Contact	1A @ 24VDC	1A @ 24VDC	1A @ 24VDC
Mechanical Characteristics			
Housing	Metal, IP30 Protection	Metal, IP30 Protection	Metal, IP30 Protection
Dimensions	46 x 142 x 99 mm	46 x 142 x 99 mm	46 x 142 x 99 mm
Weight	3.5 lbs.	3.5 lbs.	4 lbs.
Mounting	DIN-Rail & Wall Mounting	DIN-Rail & Wall Mounting	DIN-Rail & Wall Mounting
Environmental Limits			
Operating Temperature	STD: -10 to 70C EOT: -40 to 75C	STD: -10 to 70C EOT: -40 to 75C	STD: -10 to 70C EOT: -40 to 75C
Storage Temperature	-40 to 85C	-40 to 85C	-40 to 85C
Ambient Relative Humidity	5 to 95%, (Non-Condensing)	5 to 95%, (Non-Condensing)	5 to 95%, (Non-Condensing)
Regulatory Approvals			
Green	RoHS Compliant	RoHS Compliant	RoHS Compliant
Certifications	FCC, CE, UL 508	FCC, CE, UL 508	FCC, CE, UL 508
Warranty	5 Years	5 Years	5 Years



Industrial 10/100/1000
PoE Managed Switches



Model Names	LMP-0702G-SFP-24 Series	LMP-0802C-SFP Series	LMP-0802C-SFP-24 Series
Specifications			
Total Port Count	7-Port	8-Port	8-Port
Technology			
Standards	IEEE 802.3, 802.3u, 802.3ab, 802.3z, 802.3x, 802.3ad, 802.1d STP / IEEE802.1w, 802.1s, 802.1p, 802.1Q, 802.1ab, 802.3at PoE+ ITU-T G.8032	IEEE 802.3, 802.3u, 802.3ab, 802.3z, 802.3x, 802.3ad, 802.1d STP / IEEE802.1w, 802.1s, 802.1p, 802.1Q, 802.1ab, 802.3at PoE+ ITU-T G.8032	IEEE 802.3, 802.3u, 802.3ab, 802.3z, 802.3x, 802.3ad, 802.1d STP / IEEE802.1w, 802.1s, 802.1p, 802.1Q, 802.1ab, 802.3at PoE+ ITU-T G.8032
Protocol	IGMPv1/v2/v3, GVRP, SNMPv1/v2c/v3, DHCP Server/Client, SNMP, RMON, HTTP, Telnet, Syslog, LLDP, IPv6, LACP	IGMPv1/v2/v3, GVRP, SNMPv1/v2c/v3, DHCP Server/Client, SNMP, RMON, HTTP, Telnet, Syslog, LLDP, IPv6, LACP	IGMPv1/v2/v3, GVRP, SNMPv1/v2c/v3, DHCP Server/Client, SNMP, RMON, HTTP, Telnet, Syslog, LLDP, IPv6, LACP
Jumbo Frame Support	9.6Kbytes	-	9.6Kbytes
MAC Table Size	8K	8K	8K
Interface			
Ethernet Port	4*10/100/1000Tx (PoE/PoE+) + 1*10/100/1000Tx Auto MDI/MDI-X Connection	6*10/100Tx (PoE/PoE+) Auto MDI/MDI-X Connection	6*10/100Tx (PoE/PoE+) Auto MDI/MDI-X Connection
PoE Pin Assignment	Output Pin: 1,2 (V+), 3,6 (V-)	Output Pin: 1,2 (V+), 3,6 (V-)	Output Pin: 1,2 (V+), 3,6 (V-)
Fiber Port	2*100/1000 SFP Slot	2*GigE Combo (2*10/100/1000-RJ45, 2*100/1000 SFP)	2*GigE Combo (2*10/100/1000-RJ45, 2*100/1000 SFP)
Wavelength	Refer to SFP Module	Refer to SFP Module	Refer to SFP Module
Network Management & Control			
System Configuration	Web Console	Web Console; Telnet; CLI Console	Web Console; Telnet; CLI Console
Network Redundancy	STP, RSTP, MSTP G.8032 ERPS Ring Redundancy Recovery <50ms	STP, RSTP, MSTP G.8032 ERPS Ring Redundancy Recovery <50ms	STP, RSTP, MSTP G.8032 ERPS Ring Redundancy Recovery <50ms
IEEE 802.1Q VLAN	Port Based, Tag Based, Groups up to 256	Port Based, Tag Based, Groups up to 256	Port Based, Tag Based, Groups up to 256
QoS	Provides 4 Priority Queues per Port	Provides 4 Priority Queues per Port	Provides 4 Priority Queues per Port
IGMP Snooping/GMRP	IGMP v1, v2 and Query Mode. Up to 256 Groups	IGMP v1, v2 and Query Mode. Up to 256 Groups	IGMP v1, v2 and Query Mode. Up to 256 Groups
IEEE 802.1X Authentication	RADIUS Support	RADIUS Support	RADIUS Support
IP Security	Up to 10 Specific IP Addresses	Up to 10 Specific IP Addresses	Up to 10 Specific IP Addresses
PoE Ping Alert	Yes	Yes	Yes
System Warning Email Alert	By Exception Through Email	By Exception Through Email	By Exception Through Email
Serial Console	1*RS232 (RJ45 Port)	1*RS232 (RJ45 Port)	1*RS232 (RJ45 Port)
Configuration Backup	1*USB 2.0 Port	1*USB2.0 port	1*USB2.0 port
Power Requirements			
Input Voltage	12~36VDC, Redundant Input	48~55VDC, Redundant Input	12~36VDC, Redundant Input
Connection	1 Removable 6-Contact Terminal Block	1 Removable 6-Contact Terminal Block	1 Removable 6-Contact Terminal Block
Reverse Polarity Protection	Yes	Yes	Yes
PoE Power Output	Max 30W per PoE Port	Max 30W per PoE Port	Max 30W per PoE Port
Power Consumption	150W	225W	233W
Relay Alarm Contact	1A @ 24VDC	1A @ DC24V	1A @ DC24V
Mechanical Characteristics			
Housing	Metal, IP30 Protection	Metal, IP30 Protection	Metal, IP30 Protection
Dimensions	46 x 142 x 99 mm	46 x 142 x 99 mm	46 x 142 x 99 mm
Weight	4.1 lbs.	4 lbs.	4 lbs.
Mounting	DIN-Rail & Wall Mounting	DIN-Rail & Wall Mounting	DIN-Rail & Wall Mounting
Environmental Limits			
Operating Temperature	STD: -10 to 70C EOT: -40 to 75C	STD: -10 to 70C EOT: -40 to 75C	STD: -10 to 70C EOT: -40 to 75C
Storage Temperature	-40 to 85C	-40 to 85C	-40 to 85C
Ambient Relative Humidity	5 to 95%, (Non-Condensing)	5 to 95%, (Non-Condensing)	5 to 95%, (Non-Condensing)
Regulatory Approvals			
Green	RoHS Compliant	RoHS Compliant	RoHS Compliant
Certifications	FCC, CE, UL 508	FCC, CE, UL 508	FCC, CE, UL 508
Warranty	5 Years	5 Years	5 Years

Industrial 10/100/1000 PoE Managed Switches



Model Names	LNP-1002GN Series	LMP-1002C-SFP Series	LMP-1002C-SFP-24 Series
Specifications			
Total Port Count	10-Port	10-Port	10-Port
Technology			
Standards	IEEE 802.3, 802.3u, 802.3ab, 802.3z, 802.3x, 802.3ad, 802.1d STP / IEEE802.1w, 802.1p, 802.1Q, 802.1ab, 802.3af PoE	IEEE 802.3, 802.3u, 802.3ab, 802.3z, 802.3x, 802.3ad, 802.1d STP / IEEE802.1w, 802.1s, 802.1p, 802.1Q, 802.1ab, 802.3at PoE+ ITU-T G.8032	IEEE 802.3, 802.3u, 802.3ab, 802.3z, 802.3x, 802.3ad, 802.1d STP / IEEE802.1w, 802.1s, 802.1p, 802.1Q, 802.1ab, 802.3at PoE+ ITU-T G.8032
Protocol	IGMPv1/v2, GVRP, SNMPv1/v2c/v3, DHCP Server/Client, TFTP, SNMP, SMTP, RMON, HTTP, Telnet, Syslog, LLDP, IPv6, LACP	IGMPv1/v2/v3, GVRP, SNMPv1/v2c/v3, DHCP Server/Client, SNMP, RMON, HTTP, Telnet, Syslog, LLDP, IPv6, LACP	IGMPv1/v2/v3, GVRP, SNMPv1/v2c/v3, DHCP Server/Client, SNMP, RMON, HTTP, Telnet, Syslog, LLDP, IPv6, LACP
Jumbo Frame Support	9.6Kbytes	-	9.6Kbytes
MAC Table Size	8K	8K	8K
Interface			
Ethernet Port	8*10/100Tx (PoE/PoE+) Auto MDI/MDI-X Connection	8*10/100Tx (PoE/PoE+) Auto MDI/MDI-X Connection	8*10/100Tx (PoE/PoE+) Auto MDI/MDI-X Connection
PoE Pin Assignment	Output Pin: 1,2 (V+), 3,6 (V-)	Output Pin: 1,2 (V+), 3,6 (V-)	Output Pin: 1,2 (V+), 3,6 (V-)
Fiber Port	2*10/100/1000Tx RJ45 and 2*1000 SFP Combo	2*GigE Combo (2*10/100/1000-RJ45, 2*1000/1000 SFP)	2*GigE Combo (2*10/100/1000-RJ45, 2*1000/1000 SFP)
Wavelength	Refer to SFP Module	Refer to SFP Module	Refer to SFP Module
Network Management & Control			
System Configuration	Web Console; Telnet; CLI Console	Web Console; Telnet; CLI Console	Web Console; Telnet; CLI Console
Network Redundancy	STP, RSTP, Ring Redundancy Recovery <20ms	STP, RSTP, MSTP G.8032 ERPS Ring Redundancy Recovery <50ms	STP, RSTP, MSTP G.8032 ERPS Ring Redundancy Recovery <50ms
IEEE 802.1Q VLAN	Port Based, Tag Based, Groups up to 256	Port Based, Tag Based, Groups up to 256	Port Based, Tag Based, Groups up to 256
QoS	Provides 4 Priority Queues per Port	Provides 4 Priority Queues per Port	Provides 4 Priority Queues per Port
IGMP Snooping/GMRP	IGMP v1, v2 and Query Mode. Up to 256 Groups	IGMP v1, v2 and Query Mode. Up to 256 Groups	IGMP v1, v2 and Query Mode. Up to 256 Groups
IEEE 802.1X Authentication	RADIUS Support	RADIUS Support	RADIUS Support
IP Security	Up to 10 Specific IP Addresses	Up to 10 Specific IP Addresses	Up to 10 Specific IP Addresses
PoE Ping Alert	-	Yes	Yes
System Warning Email Alert	By Exception Through Email	By Exception Through Email	By Exception Through Email
Serial Console	1*RS232 (RJ45 Port)	1*RS232 (RJ45 Port)	1*RS232 (RJ45 Port)
Configuration Backup	-	1*USB2.0 port	1*USB2.0 port
Power Requirements			
Input Voltage	48VDC, Redundant Input	48~55VDC, Redundant Input	12~36VDC, Redundant Input
Connection	1 Removable 6-Contact Terminal Block	1 Removable 6-Contact Terminal Block	1 Removable 6-Contact Terminal Block
Reverse Polarity Protection	Yes	Yes	Yes
PoE Power Output	Max 15.4W per PoE Port	Max 30W per PoE Port	Max 30W per PoE Port
Power Consumption	116W	245W	253W
Relay Alarm Contact	1A @ 24VDC	1A @ DC24V	1A @ DC24V
Mechanical Characteristics			
Housing	Metal, IP30 Protection	Metal, IP30 Protection	Metal, IP30 Protection
Dimensions	72 x 152 x 105 mm	46 x 142 x 99 mm	46 x 142 x 99 mm
Weight	2 lbs.	4 lbs.	4 lbs.
Mounting	DIN-Rail & Wall Mounting	DIN-Rail & Wall Mounting	DIN-Rail & Wall Mounting
Environmental Limits			
Operating Temperature	STD: -10 to 60C EOT: -40 to 70C	STD: -10 to 70C EOT: -40 to 75C	STD: -10 to 70C EOT: -40 to 75C
Storage Temperature	-40 to 85C	-40 to 85C	-40 to 85C
Ambient Relative Humidity	5 to 95%, (Non-Condensing)	5 to 95%, (Non-Condensing)	5 to 95%, (Non-Condensing)
Regulatory Approvals			
Green	RoHS Compliant	RoHS Compliant	RoHS Compliant
Certifications	FCC, CE, UL	FCC, CE, UL 508	FCC, CE, UL 508
Warranty	5 Years	5 Years	5 Years



Industrial 10/100/1000
PoE Managed Switches



Model Names	LMP-1002G-SFP Series	LMP-1002G-SFP-24 Series	LNP-1204GN Series
Specifications			
Total Port Count	10-Port	10-Port	12-Port
Technology			
Standards	IEEE 802.3, 802.3u, 802.3ab, 802.3z, 802.3x, 802.3ad, 802.1d, 802.1w, 802.1s, 802.1p, 802.1Q, 802.1ab, 802.3at PoE+ ITU-T G.8032	IEEE 802.3, 802.3u, 802.3ab, 802.3z, 802.3x, 802.3ad, 802.1d, 802.1w, 802.1s, 802.1p, 802.1Q, 802.1ab, 802.3at PoE+ ITU-T G.8032	IEEE 802.3, 802.3u, 802.3ab, 802.3z, 802.3x, 802.3ad, 802.1d STP / IEEE802.1w, 802.1s, 802.1p, 802.1Q, 802.1ab, 802.3at PoE+
Protocol	IGMPv1/v2/v3, GVRP, SNMPv1/v2c/v3, DHCP Server/Client, STNP, RMON, HTTP, Telnet, Syslog, LLDP, IPv6, LACP	IGMPv1/v2/v3, GVRP, SNMPv1/v2c/v3, DHCP Server/Client, STNP, RMON, HTTP, Telnet, Syslog, LLDP, IPv6, LACP	IGMPv1/v2/v3, GVRP, SNMPv1/v2c/v3, DHCP Server/Client, STNP, RMON, HTTP, Telnet, Syslog, LLDP, IPv6, LACP
Jumbo Frame Support	9.6Kbytes	9.6Kbytes	9.6Kbytes
MAC Table Size	8K	8K	8K
Interface			
Ethernet Port	8*10/100/1000Tx (PoE/PoE+) Auto MDI/MDI-X Connection	8*10/100/1000Tx (PoE/PoE+) Auto MDI/MDI-X Connection	8*10/100/1000Tx (PoE/PoE+)Auto MDI/MDI-X Connection
PoE Pin Assignment	Output Pin: 1,2 (V+), 3,6 (V-)	Output Pin: 1,2 (V+), 3,6 (V-)	Output Pin: 1,2 (V+), 3,6 (V-)
Fiber Port	2*100/1000 SFP Slot	2*100/1000 SFP Slot	4*1000 SFP Slot
Wavelength	Refer to SFP Module	Refer to SFP Module	Refer to SFP Module
Network Management & Control			
System Configuration	Web Console; Telnet; CLI Console	Web Console; Telnet; CLI Console	Web Console; Telnet; CLI Console
Network Redundancy	STP, RSTP, MSTP G.8032 ERPS Ring Redundancy Recovery <50ms	STP, RSTP, MSTP G.8032 ERPS Ring Redundancy Recovery <50ms	STP, RSTP, MSTP; Ring Redundancy Recovery <20ms
IEEE 802.1Q VLAN	Port Based, Tag Based, Groups up to 256	Port Based, Tag Based, Groups up to 256	Port Based, Tag Based, Groups up to 256
QoS	Provides 4 Priority Queues per Port	Provides 4 Priority Queues per Port	Provides 4 Priority Queues per Port
IGMP Snooping/GMRP	IGMP v1, v2 and Query Mode. Up to 256 Groups	IGMP v1, v2 and Query Mode. Up to 256 Groups	IGMP v1, v2 and Query Mode. Up to 256 Groups
IEEE 802.1X Authentication	RADIUS Support	RADIUS Support	RADIUS Support
IP Security	Up to 10 Specific IP Addresses	Up to 10 Specific IP Addresses	Up to 10 Specific IP Addresses
PoE Ping Alert	Yes	Yes	-
System Warning Email Alert	By Exception Through Email	By Exception Through Email	By Exception Through Email
Serial Console	1*RS232 (RJ45 Port)	1*RS232 (RJ45 Port)	1*RS232 (RJ45 Port)
Configuration Backup	1*USB 2.0 Port	1*USB 2.0 Port	-
Power Requirements			
Input Voltage	48~55VDC, Redundant Input	12~36VDC, Redundant Input	50~57VDC, Redundant Input
Connection	1 Removable 6-Contact Terminal Block	1 Removable 6-Contact Terminal Block	1 Removable 6-Contact Terminal Block
Reverse Polarity Protection	Yes	Yes	Yes
PoE Power Output	Max 30W per PoE Port	Max 30W per PoE Port	Max 30W per PoE Port
Power Consumption	245W	248W	260W
Relay Alarm Contact	1A @ 24VDC	1A @ 24VDC	1A @ 24VDC
Mechanical Characteristics			
Housing	Metal, IP30 Protection	Metal, IP30 Protection	Metal, IP30 Protection
Dimensions	46 x 142 x 99 mm	46 x 142 x 99 mm	96.4 x 154 x 108.5 mm
Weight	4 lbs.	4 lbs.	4.5 lbs.
Mounting	DIN-Rail & Wall Mounting	DIN-Rail & Wall Mounting	DIN-Rail & Wall Mounting
Environmental Limits			
Operating Temperature	STD: -10 to 70C EOT: -40 to 75C	STD: -10 to 70C EOT: -40 to 75C	STD: -10 to 60C EOT: -40 to 70C
Storage Temperature	-40 to 85C	-40 to 85C	-40 to 85C
Ambient Relative Humidity	5 to 95%, (Non-Condensing)	5 to 95%, (Non-Condensing)	5 to 95%, (Non-Condensing)
Regulatory Approvals			
Green	RoHS Compliant	RoHS Compliant	RoHS Compliant
Certifications	FCC, CE, UL 508	FCC, CE, UL 508	FCC, CE, UL 508
Warranty	5 Years	5 Years	5 Years

Industrial 10/100/1000 PoE Managed Switches



Model Names	LMP-1602G-SFP Series	LMP-1602G-SFP-24 Series	LNP-2602GN Series
Specifications			
Total Port Count	16-Port	16-Port	26-Port
Technology			
Standards	IEEE 802.3, 802.3u, 802.3ab, 802.3z, 802.3x, 802.3ad, 802.1d, 802.1w, 802.1s, 802.1p, 802.1Q, 802.1ab, 802.3at PoE+ ITU-T G.8032	IEEE 802.3, 802.3u, 802.3ab, 802.3z, 802.3x, 802.3ad, 802.1d, 802.1w, 802.1s, 802.1p, 802.1Q, 802.1ab, 802.3at PoE+ ITU-T G.8032	IEEE 802.3, 802.3u, 802.3ab, 802.3z, 802.3x, 802.3ad, 802.1d STP / IEEE802.1w, 802.1p, 802.1Q, 802.1ab, 802.3af PoE
Protocol	IGMPv1/v2/v3, GVRP, SNMPv1/v2c/v3, DHCP Server/Client, STP, RMON, HTTP, Telnet, Syslog, LLDP, IPv6, LACP	IGMPv1/v2/v3, GVRP, SNMPv1/v2c/v3, DHCP Server/Client, STP, RMON, HTTP, Telnet, Syslog, LLDP, IPv6, LACP	IGMPv1/v2, GVRP, SNMPv1/v2c/v3, DHCP Server/Client, STP, RMON, HTTP, Telnet, Syslog, LLDP, IPv6, LACP
Jumbo Frame Support	9.6Kbytes	9.6Kbytes	9.6Kbytes
MAC Table Size	8K	8K	8K
Interface			
Ethernet Port	12*10/100/1000Tx (PoE/PoE+) + 2*10/100/1000Tx; Auto MDI/MDI-X Connection	12*10/100/1000Tx (PoE/PoE+) + 2*10/100/1000Tx; Auto MDI/MDI-X Connection	24*10/100Tx (PoE) Auto MDI/MDI-X Connection
PoE Pin Assignment	Output Pin: 1,2 (V+), 3,6 (V-)	Output Pin: 1,2 (V+), 3,6 (V-)	Output Pin: 1,2 (V+), 3,6 (V-)
Fiber Port	2*100/1000 SFP Slot	2*100/1000 SFP Slot	2*1000 Combo Port (RJ45/SFP)
Wavelength	Refer to SFP Module	Refer to SFP Module	Refer to SFP Module
Network Management & Control			
System Configuration	Web Console; Telnet; CLI Console	Web Console; Telnet; CLI Console	Web Console; Telnet; CLI Console
Network Redundancy	STP, RSTP, MSTP G.8032 ERPS Ring Redundancy Recovery <50ms	STP, RSTP, MSTP G.8032 ERPS Ring Redundancy Recovery <50ms	STP, RSTP, Ring Redundancy Recovery <20ms
IEEE 802.1Q VLAN	Port Based, Tag Based, Groups up to 256	Port Based, Tag Based, Groups up to 256	Port Based, Tag Based, Groups up to 256
QoS	Provides 4 Priority Queues per Port	Provides 4 Priority Queues per Port	Provides 4 Priority Queues per Port
IGMP Snooping/GMRP	IGMP v1, v2 and Query Mode. Up to 256 Groups	IGMP v1, v2 and Query Mode. Up to 256 Groups	IGMP v1, v2 and Query Mode. Up to 256 Groups
IEEE 802.1X Authentication	RADIUS Support	RADIUS Support	RADIUS Support
IP Security	Up to 10 Specific IP Addresses	Up to 10 Specific IP Addresses	Up to 10 Specific IP Addresses
PoE Ping Alert	Yes	Yes	-
System Warning Email Alert	By Exception Through Email	By Exception Through Email	By Exception Through Email
Serial Console	1*RS232 (RJ45 Port)	1*RS232 (RJ45 Port)	1*RS232 (DB9M)
Configuration Backup	1*USB 2.0 Port	1*USB 2.0 Port	-
Power Requirements			
Input Voltage	48~55VDC, Redundant Input	12~36VDC, Redundant Input	48VDC, Redundant Input
Connection	1 Removable 6-Contact Terminal Block	1 Removable 6-Contact Terminal Block	1 Removable 6-Contact Terminal Block
Reverse Polarity Protection	Yes	Yes	Yes
PoE Power Output	Max 30W per PoE Port	Max 30W per PoE Port	Max 15.4W per PoE Port
Power Consumption	390W	395W	375W
Relay Alarm Contact	1A @ 24VDC	1A @ 24VDC	1A @ 24VDC
Mechanical Characteristics			
Housing	Metal, IP30 Protection	Metal, IP30 Protection	Metal, IP30 Protection
Dimensions	72 x 152 x 105 mm	72 x 152 x 105 mm	440 x 280 x 44 mm
Weight	5 lbs.	5 lbs.	9.3 lbs.
Mounting	DIN-Rail & Wall Mounting	DIN-Rail & Wall Mounting	1U 19" Rackmount
Environmental Limits			
Operating Temperature	STD: -10 to 70C EOT: -40 to 75C	STD: -10 to 70C EOT: -40 to 75C	STD: -10 to 60C EOT: -35 to 70C
Storage Temperature	-40 to 85C	-40 to 85C	-40 to 85C
Ambient Relative Humidity	5 to 95%, (Non-Condensing)	5 to 95%, (Non-Condensing)	5 to 95%, (Non-Condensing)
Regulatory Approvals			
Green	RoHS Compliant	RoHS Compliant	RoHS Compliant
Certifications	FCC, CE, UL 508	FCC, CE, UL 508	FCC, CE, UL
Warranty	5 Years	5 Years	5 Years



Industrial Ethernet Routers



Model Names		LNR-3001
Specifications		
Total Port Count		2-Port
Technology		
Standards		IEEE 802.3, 802.3u, 802.1ab, 802.3z
Protocol		SNMPv1/v2c/v3, DHCP Server/Client, TFTP, NTP, HTTP, HTTPS, Telnet, SSH, Syslog, SMTP, LLDP, PPPoE, PPTP, Dynamic DNS, QoS (Quality of Service)
Routing		Static Routing, RIP V1/V2, VRRP
VLAN		5 VLANs per Interfaces (VLAN ID: 1 to 4094)
Flow Control		IEEE 802.3x Flow Control, Back Pressure Flow Control
Interface		
WAN		10/100Tx Auto Negotiation Speed
LAN		10/100Tx Auto Negotiation Speed
Alarm Contact		One Relay Output
Security Function		
Firewall		<ul style="list-style-type: none"> • Stateful Inspection • Filter: IP and MAC Address, Ports, ICMP, DDoS, Ethernet Protocols • Bridge Mode Firewall
NAT		N-to-1, 1-to-1, and Port Forwarding
VPN		IPSec (Client/Server), L2TP (Server), PPTP (Client),
Encryption		DES, 3DES, AES-128/192/256
Power Requirements		
Input Voltage		12~48VDC, Redundant Input
Connection		1 Removable 6-Contact Terminal Block;
Reverse Polarity Protection		Yes
Power Consumption		10W
Relay Alarm Contact		1A @ 24VDC
Mechanical Characteristics		
Housing		Metal, IP30 Protection
Dimensions		45 x 155 x 115 mm
Weight		1.2 lbs.
Mounting		DIN-Rail & Wall Mounting
Environmental Limits		
Operating Temperature		STD: -10 to 60C EOT: -35 to 70C
Storage Temperature		-40 to 85C
Ambient Relative Humidity		5 to 95%, (Non-Condensing)
Regulatory Approvals		
Green		RoHS Compliant
Certifications		FCC, CE
Warranty		5 Years

Ordering Information Industrial Ethernet Switches

Name	Description
Industrial 10/100 Fast Ethernet Unmanaged Ethernet Switches	
LNX-500A	5-Port 10/100TX Slim Industrial Ethernet Switch
LNX-500A-T	5-Port 10/100TX Slim Industrial Ethernet Switch, EOT: -40 to 80C
LNX-0501-M	5-Port Slim Industrial Ethernet Switch w/1 Fiber Port, Multi-Mode
LNX-0501-M-T	5-Port Slim Industrial Ethernet Switch w/1 Fiber Port, Multi-Mode, EOT: -40 to 75C
LNX-0501-ST-M	5-Port Slim Industrial Ethernet Switch w/1 Fiber Port, Multi-Mode, ST Connector
LNX-0501-ST-M-T	5-Port Slim Industrial Ethernet Switch w/1 Fiber Port, Multi-Mode, ST Connector, EOT: -40 to 75C
LNX-0501-S3	5-Port Slim Industrial Ethernet Switch w/1 Fiber Port, Single-Mode 30Km
LNX-0501-S3-T	5-Port Slim Industrial Ethernet Switch w/1 Fiber Port, Single-Mode 30Km, EOT : -40 to 75C
LNX-0501-ST-S3	5-Port Slim Industrial Ethernet Switch w/1 Fiber Port, Single-Mode 30Km, ST Connector
LNX-0501-ST-S3-T	5-Port Slim Industrial Ethernet Switch w/1 Fiber Port, Single-Mode 30Km, ST Connector, EOT : -40 to 75C
LNX-0602-M	6-Port Slim Industrial Ethernet Switch w/2 Fiber Port, Multi Mode
LNX-0602-M-T	6-Port Slim Industrial Ethernet Switch w/2 Fiber Port, Multi Mode, EOT: -40 to 75C
LNX-0602-S3	6-Port Slim Industrial Ethernet Switch w/2 Fiber Port, Single-Mode 30Km
LNX-0602-S3-T	6-Port Slim Industrial Ethernet Switch w/2 Fiber Port, Single-Mode 30Km, EOT : -40 to 75C
LNX-0602-ST-M	6-Port Slim Industrial Ethernet Switch w/2 Fiber Port, Multi Mode, ST Connectors
LNX-0602-ST-M-T	6-Port Slim Industrial Ethernet Switch w/2 Fiber Port, Multi Mode, ST Connectors, EOT : -40 to 75C
LNX-0602-ST-S3	6-Port Slim Industrial Ethernet Switch w/2 Fiber Port, Single Mode, ST Connectors
LNX-0602-ST-S3-T	6-Port Slim Industrial Ethernet Switch w/2 Fiber Port, Single Mode, ST Connectors, EOT : -40 to 75C
LNX-800A	8-Port Slim Industrial Ethernet Switch
LNX-800A-T	8-Port Slim Industrial Ethernet Switch, EOT : -40 to 75C
LNX-800-M12-T	8-Port EN50155 Industrial Ethernet Switch, w/8* 10/100Tx M12 connectors; EOT : -40 to 80C
Industrial 10/100/1000 Unmanaged Ethernet Switches	
LNX-500AG	5-Port Industrial Ethernet Unmanaged Switch
LNX-500AG-T	5-Port Industrial Ethernet Unmanaged Switch, w/ 5*10/100/1000Tx EOT: -40 to 80C
LNX-0501G-SFP	5-Port Industrial Unmanaged Ethernet Switch, w/4*10/100/1000Tx + 1*100/1000 SFP Slot
LNX-0501G-SFP-T	5-Port Industrial Unmanaged Ethernet Switch, w/4*10/100/1000Tx + 1*100/1000 SFP Slot; EOT: -40 to 75C
LNX-0601G-SFP	6-Port Industrial Unmanaged Ethernet Switch, w/5*10/100/1000Tx + 1*100/1000 SFP Slot
LNX-0601G-SFP-T	6-Port Industrial Unmanaged Ethernet Switch, w/5*10/100/1000Tx + 1*100/1000 SFP Slot; EOT: -40 to 75C
LNX-0702G-SFP	7-Port Industrial Unmanaged Ethernet Switch, w/5*10/100Tx + 2*GigE Combo Ports
LNX-0702G-SFP-T	7-Port Industrial Unmanaged Ethernet Switch, w/5*10/100Tx + 2*GigE Combo Ports; EOT: -40 to 75C
LNX-0702G-SFP	7-Port Industrial Unmanaged Ethernet Switch, w/5*10/100/1000Tx + 2*100/1000 SFP Slots
LNX-0702G-SFP-T	7-Port Industrial Unmanaged Ethernet Switch, w/5*10/100/1000Tx + 2*100/1000 SFP Slots; EOT: -40 to 75C
LNX-0702G-SFP-24	7-Port Industrial Unmanaged Ethernet Switch, w/5*10/100/1000Tx + 2*GigE Combo Ports; 12~36VDC
LNX-0702G-SFP-24-T	7-Port Industrial Unmanaged Ethernet Switch, w/5*10/100/1000Tx + 2*GigE Combo Ports; 12~36VDC, EOT: -40 to 75C
LNX-800AG	8-Port Industrial Unmanaged Ethernet Switch, w/8*10/100/1000Tx
LNX-800AG-T	8-Port Industrial Unmanaged Ethernet Switch, w/8*10/100/1000Tx, EOT: -40 to 80C
LNX-802AG-M	8-Port Industrial Unmanaged Ethernet Switch, w/6*10/100/1000Tx + 2*1000Fx Multi-Mode 2Km, SC connector
LNX-802AG-M-T	8-Port Industrial Unmanaged Ethernet Switch, w/6*10/100/1000Tx + 2*1000Fx Multi-Mode 2Km, SC connector; EOT: -40 to 75C
LNX-802AG-S10	8-Port Industrial Unmanaged Ethernet Switch, w/6*10/100/1000Tx + 2*1000Fx Single-Mode 10Km, SC connector
LNX-0802C-SFP	8-Port Industrial Unmanaged Ethernet Switch, w/6*10/100Tx + 2*GigE Combo Ports (2*10/100/1000T RJ45, and 2*100/1000 SFP)
LNX-0802C-SFP-T	8-Port Industrial Unmanaged Ethernet Switch, w/6*10/100Tx + 2*GigE Combo Ports (2*10/100/1000T RJ45, and 2*100/1000 SFP), EOT: -40 to 75C
LNX-0802G-SFP	8-Port Industrial Unmanaged Ethernet Switch, w/6*10/100/1000Tx + 2*100/1000 SFP
LNX-0802G-SFP-T	8-Port Industrial Unmanaged Ethernet Switch, w/6*10/100/1000Tx + 2*100/1000 SFP, EOT: -40 to 75C
LNX-802AG-S10-T	8-Port Industrial Unmanaged Ethernet Switch, w/6*10/100/1000Tx + 2*1000Fx Single-Mode 10Km, SC connector; EOT: -40 to 75C
LNX-1002C-SFP	10-Port Industrial Unmanaged Ethernet Switch, w/8*10/100Tx + 2*GigE Combo Ports
LNX-1002C-SFP-T	10-Port Industrial Unmanaged Ethernet Switch, w/8*10/100Tx + 2*GigE Combo Ports; EOT: -40 to 75C
LNX-1002G-SFP	10-Port Industrial Unmanaged Ethernet Switch, w/8*10/100/1000Tx + 2*100/1000 SFP Slots
LNX-1002G-SFP-T	10-Port Industrial Unmanaged Ethernet Switch, w/8*10/100/1000Tx + 2*100/1000 SFP Slots; EOT: -40 to 75C
LNX-1802G	18-Port Industrial Unmanaged Ethernet Switch, w/16*10/100Tx + 2 *GigE Combo Ports
LNX-1802G-T	18-Port Industrial Unmanaged Ethernet Switch, w/16*10/100Tx + 2 *GigE Combo Ports; EOT: -40 to 80C
Industrial 10/100 Managed Ethernet Switches	
LMX-0500	5-Port Industrial Managed Ethernet Switch w/5*10/100Tx
LMX-0500-T	5-Port Industrial Managed Ethernet Switch w/5*10/100Tx; EOT: -40 to 75C
LNX-501WM	5-Port Industrial Managed Ethernet Switch w/1 Fiber Port, Multi-Mode
LNX-501WM-ST	5-Port Industrial Managed Ethernet Switch w/1 Fiber Port (ST Connector), Multi-Mode
LNX-501WM-ST-T	5-Port Industrial Managed Ethernet Switch w/1 Fiber Port (ST Connector), Multi-Mode, EOT : -40 to 80 C
LNX-501WM-T	5-Port Industrial Managed Ethernet Switch w/1 Fiber Port, Multi-Mode, EOT: -40 to 80 C
LNX-501WS3	5-Port Industrial Managed Ethernet Switch w/1 Fiber Port, Single-Mode 30Km
LNX-501WS3-T	5-Port Industrial Managed Ethernet Switch w/1 Fiber Port, Single-Mode 30Km, EOT : -40 to 80 C
LNX-501WWA-S2	5-Port Industrial Managed Ethernet Switch w/1 WDM-A Fiber Single Strand Port, Single Mode 20 Km



LNX-501WWB-S2	5-Port Industrial Managed Ethernet Switch w/1 WDM-B Fiber Single Strand Port, Single Mode 20 Km
LMX-0501-M	5-Port Industrial Managed Ethernet Switches w/4*10/100Tx, + 1*100Fx Multi-Mode 2Km
LMX-0501-M-T	5-Port Industrial Managed Ethernet Switches w/4*10/100Tx, + 1*100Fx Multi-Mode 2Km; EOT: -40 to 75C
LMX-0501-S3	5-Port Industrial Managed Ethernet Switches w/4*10/100Tx, + 1*100Fx Single Mode 30Km
LMX-0501-S3-T	5-Port Industrial Managed Ethernet Switches w/4*10/100Tx, + 1*100Fx Single Mode 30Km; EOT: -40 to 75C
LMX-0501-ST-M	5-Port Industrial Managed Ethernet Switches w/4*10/100Tx, + 1*100Fx Multi-Mode 2Km, ST connector
LMX-0501-ST-M-T	5-Port Industrial Managed Ethernet Switches w/4*10/100Tx, + 1*100Fx Multi-Mode 2Km, ST connector; EOT: -40 to 75C
LMX-0501-ST-S3	5-Port Industrial Managed Ethernet Switches w/4*10/100Tx, + 1*100Fx Single Mode 30Km, ST connector
LMX-0501-ST-S3-T	5-Port Industrial Managed Ethernet Switches w/4*10/100Tx, + 1*100Fx Single Mode 30Km, ST connector; EOT: -40 to 75C
LMX-0600	6-Port Industrial Managed Ethernet Switches w/6*10/100Tx
LMX-0600-T	6-Port Industrial Managed Ethernet Switches w/6*10/100Tx; EOT: -40 to 75C
LNX-602N-MM-T	6-port Industrial Managed Ethernet Switch with 4* 10/100TX, 2* 100FX, Multi-Mode 2Km, EOT: -40 to 75C
LNX-602N-S530-T	6-port Industrial Managed Ethernet Switch with 4* 10/100TX and 2* 100FX, Single Mode 30Km, EOT: -40 to 75C
LMX-0602-M	6-Port Industrial Managed Ethernet Switch w/4*10/100Tx + 2*100Fx Multi-Mode 2Km
LMX-0602-M-T	6-Port Industrial Managed Ethernet Switch w/4*10/100Tx + 2*100Fx Multi-Mode 2Km; EOT: -40 to 75C
LMX-0602-S3	6-Port Industrial Managed Ethernet Switch w/4*10/100Tx + 2*100Fx Single Mode 30Km
LMX-0602-S3-T	6-Port Industrial Managed Ethernet Switch w/4*10/100Tx + 2*100Fx Single Mode 30Km; EOT: -40 to 75C
LMX-0602-ST-M	6-Port Industrial Managed Ethernet Switch w/4*10/100Tx + 2*100Fx Multi-Mode 2Km, ST Connector
LMX-0602-ST-M-T	6-Port Industrial Managed Ethernet Switch w/4*10/100Tx + 2*100Fx Multi-Mode 2Km, ST Connector; EOT: -40 to 75C
LMX-0602-ST-S3	6-Port Industrial Managed Ethernet Switch w/4*10/100Tx + 2*100Fx Single Mode 30Km, ST Connector
LMX-0602-ST-S3-T	6-Port Industrial Managed Ethernet Switch w/4*10/100Tx + 2*100Fx Single Mode 30Km, ST Connector; EOT: -40 to 75C
LNX-800N	8-Port Industrial SNMP Managed Ethernet Switch
LNX-800N-T	8-Port Industrial SNMP Managed Ethernet Switch, EOT: -40 to 80 C
LNX-800N-67-T	8-Port EN50155 Compliant IP67 Industrial Managed Ethernet Switch, w/8*10/100Tx M12 Connector, EOT: -40 to 75C
LNX-802NM	8-Port Industrial SNMP Managed Ethernet Switch w/2 Fiber Ports, Multi-Mode
LNX-802NM-ST	8-Port Industrial SNMP Managed Ethernet Switch w/2 Fiber Ports, Multi-Mode, ST Connectors
LNX-802NM-T	8-Port Industrial SNMP Managed Ethernet Switch w/2 Fiber Ports, Multi-Mode, EOT: -40 to 80 C
LNX-802NS3	8-Port Industrial SNMP Managed Ethernet Switch w/2 Fiber Ports, Single-Mode 30Km
LNX-802NS3-T	8-Port Industrial SNMP Managed Ethernet Switch w/2 Fiber Ports, Single-Mode 30Km, EOT: -40 to 80 C
LNX-1002NM-67-T	EN50155 Compliant 8* 10/100TX + 2* 100FX IP67 Industrial Managed Ethernet Switch, Multi-Mode 2Km, EOT: -40 to 75C
LNX-1002NS-67-T	EN50155 Compliant 8* 10/100TX + 2* 100FX IP67 Industrial Managed Ethernet Switch, Single Mode 30Km, EOT: -40 to 75C

Industrial 10/100/1000 Managed Ethernet Switches

LMX-0501G-SFP	5-Port Industrial Managed Ethernet Switch, w/4*10/100/1000Tx + 1*100/1000 SFP Slot
LMX-0501G-SFP-T	5-Port Industrial Managed Ethernet Switch, w/4*10/100/1000Tx + 1*100/1000 SFP Slot; EOT: -40 to 75C
LMX-0601G-SFP	6-Port Industrial Managed Ethernet Switch, w/5*10/100/1000Tx + 1*100/1000 SFP Slot
LMX-0802C-SFP	8-Port Industrial Managed Ethernet Switch, w/6*10/100Tx + 2*GigE Combo Ports (2*10/100/1000T RJ45, and 2*100/1000 SFP)
LMX-0802C-SFP-T	8-Port Industrial Managed Ethernet Switch, w/6*10/100Tx + 2*GigE Combo Ports (2*10/100/1000T RJ45, and 2*100/1000 SFP), EOT: -40 to 75C
LMX-0802G-SFP	8-Port Industrial Managed Ethernet Switch, w/6*10/100/1000Tx + 2*100/1000 SFP
LMX-0802G-SFP-T	8-Port Industrial Managed Ethernet Switch, w/6*10/100/1000Tx + 2*100/1000 SFP; EOT: -40 to 75C
LMX-0601G-SFP-T	6-Port Industrial Managed Ethernet Switch, w/5*10/100/1000Tx + 1*100/1000 SFP Slot; EOT: -40 to 75C
LNX-804GN	8-Port Industrial Managed Ethernet Switch, w/4*10/100/1000Tx + 4*SFP Slots
LNX-804GN-T	8-Port Industrial Managed Ethernet Switch, w/4*10/100/1000Tx + 4*SFP Slots ; EOT: -40 to 80C
LNX-1002GN	10-Port Industrial Managed Ethernet Switch, w/8*10/100Tx + 2*GigE Combo Ports
LNX-1002GN-T	10-Port Industrial Managed Ethernet Switch, w/8*10/100Tx + 2*GigE Combo Ports; EOT: -40 to 75C
LNX-1212GN-SFP	12-Port Industrial Managed Ethernet Switch, w/8*10/100/1000Tx and SFP Combo Ports, + 4*1000X SFP Slots
LNX-1212GN-SFP-T	12-Port Industrial Managed Ethernet Switch, w/8*10/100/1000Tx and SFP Combo Ports, + 4*1000X SFP Slots; EOT: -40 to 75C
LNX-1802GN	18-Port Industrial Managed Ethernet Switch, w/16*10/100Tx + 2*GigE Combo Ports
LNX-1802GN-T	18-Port Industrial Managed Ethernet Switch, w/16*10/100Tx + 2*GigE Combo Ports; EOT: -40 to 80C
LNX-2602GN	26-Port 1U 19" Rackmount Industrial Managed Ethernet Switch, w/24*10/100Tx + 2*GigE Combo Ports
LNX-2602GN-T	26-Port 1U 19" Rackmount Industrial Managed Ethernet Switch, w/24*10/100Tx + 2*GigE Combo Ports; EOT: -40 to 75C

Industrial 10/100 PoE Unmanaged Ethernet Switches

LNP-101AG-T	Industrial PoE Splitter for 10/100/1000T, EOT: -40 to 80C
LNP-201AG-T	Industrial IEEE 802.3at Gigabit PoE Injector, EOT: -40 to 75C
LNP-0500	5-Port Industrial PoE+ Unmanaged Ethernet Switch, w/4*10/100Tx (30W/Port) + 1*10/100Tx
LNP-0500-T	5-Port Industrial PoE+ Unmanaged Ethernet Switch, w/4*10/100Tx (30W/Port) + 1*10/100Tx; EOT: -40 to 75C
LNP-0500-24	5-Port Industrial PoE+ Unmanaged Ethernet Switch, w/4*10/100Tx (30W/Port) + 1*10/100Tx, 12~36VDC
LNP-0500-24-T	5-Port Industrial PoE+ Unmanaged Ethernet Switch, w/4*10/100Tx (30W/Port) + 1*10/100Tx, 12~36VDC, EOT: -40 to 75C
LNP-0501-M	5-Port Industrial PoE+ Unmanaged Ethernet Switch w/4x10/100Tx (30W/Port) + 1*100Fx Multi-Mode 2Km
LNP-0501-M-T	5-Port Industrial PoE+ Unmanaged Ethernet Switch w/4*10/100Tx (30W/Port) + 1*100Fx Multi-Mode 2Km; EOT: -40 to 75C
LNP-0501-ST-M	5-Port Industrial PoE+ Unmanaged Ethernet Switch w/4x10/100Tx (30W/Port) + 1*100Fx Multi-Mode 2Km, ST Connector
LNP-0501-ST-M-T	5-Port Industrial PoE+ Unmanaged Ethernet Switch w/4*10/100Tx (30W/Port) + 1*100Fx Multi-Mode 2Km, ST Connector; EOT: -40 to 75C
LNP-0501-M-24	5-Port Industrial PoE+ Unmanaged Ethernet Switch, w/4*10/100Tx (30W/Port) + 1*100Fx Multi-Mode 2Km, 12-36VDC
LNP-0501-M-24-T	5-Port Industrial PoE+ Unmanaged Ethernet Switch, w/4*10/100Tx (30W/Port) + 1*100Fx Multi-Mode 2Km, 12-36VDC; EOT: -40 to 75C
LNP-0501-S3	5-Port Industrial PoE+ Unmanaged Ethernet Switch w/4x10/100Tx (30W/Port) + 1*100Fx Single-Mode 30Km
LNP-0501-S3-T	5-Port Industrial PoE+ Unmanaged Ethernet Switch w/4*10/100Tx (30W/Port) + 1*100Fx Single-Mode 30Km; EOT: -40 to 75C

LNP-0501-ST-S3	5-Port Industrial PoE+ Unmanaged Ethernet Switch w/4x10/100Tx (30W/Port) + 1*100Fx Single-Mode 30Km, ST Connector
LNP-0501-ST-S3-T	5-Port Industrial PoE+ Unmanaged Ethernet Switch w/4*10/100Tx (30W/Port) + 1*100Fx Single-Mode 30Km, ST Connector; EOT: -40 to 75C
LNP-0501-S3-24	5-Port Industrial PoE+ Unmanaged Ethernet Switch, w/4*10/100Tx (30W/Port) + 1*100Fx Single-Mode 30Km, 12-36VDC
LNP-0501-S3-24-T	5-Port Industrial PoE+ Unmanaged Ethernet Switch, w/4*10/100Tx (30W/Port) + 1*100Fx Single-Mode 30Km, 12-36VDC; EOT: -40 to 75C
LNP-0602-M	6-Port Industrial PoE+ Unmanaged Ethernet Switch, w/4*10/100Tx (30W/Port)+2*100Fx Multi-Mode 2Km
LNP-0602-M-T	6-Port Industrial PoE+ Unmanaged Ethernet Switch, w/4*10/100Tx (30W/Port)+ 2*100Fx Multi-Mode 2Km; EOT: -40 to 75C
LNP-0602-ST-M	6-Port Industrial PoE+ Unmanaged Ethernet Switch, w/4*10/100Tx (30W/Port)+ 2*100Fx Multi-Mode 2Km, ST Connector
LNP-0602-ST-M-T	6-Port Industrial PoE+ Unmanaged Ethernet Switch, w/4*10/100Tx (30W/Port)+ 2*100Fx Multi-Mode 2Km, ST Connector; EOT: -40 to 75C
LNP-0602-S3	6-Port Industrial PoE+ Unmanaged Ethernet Switch, w/4*10/100Tx (30W/Port)+ 2*100Fx Single-Mode 30Km
LNP-0602-S3-T	6-Port Industrial PoE+ Unmanaged Ethernet Switch, w/4*10/100Tx (30W/Port)+ 2*100Fx Single-Mode 30Km; EOT: -40 to 75C
LNP-0602-ST-S3	6-Port Industrial PoE+ Unmanaged Ethernet Switch, w/4*10/100Tx (30W/Port)+ 2*100Fx Single-Mode 30Km, ST Connector
LNP-0602-ST-S3-T	6-Port Industrial PoE+ Unmanaged Ethernet Switch, w/4*10/100Tx (30W/Port)+ 2*100Fx Single-Mode 30Km, ST Connector; EOT: -40 to 75C
LNP-0800	8-Port Industrial PoE+ Unmanaged Ethernet Switch, w/8*10/100Tx (30W/Port)
LNP-0800-T	8-Port Industrial PoE+ Unmanaged Ethernet Switch, w/8*10/100Tx (30W/Port); EOT: -40 to 75C
LNP-0800-24	8-Port Industrial PoE+ Unmanaged Ethernet Switch, w/8*10/100Tx (30W/Port), 12-36VDC
LNP-0800-24-T	8-Port Industrial PoE+ Unmanaged Ethernet Switch, w/8*10/100Tx (30W/Port), 12-36VDC; EOT: -40 to 75C
LNP-0802-M-24	8-Port Industrial PoE+ Unmanaged Ethernet Switch, w/6*10/100Tx (30W/Port) + 2*100Fx Multi-Mode 2Km, 12-36VDC
LNP-0802-M-24-T	8-Port Industrial PoE+ Unmanaged Ethernet Switch, w/6*10/100Tx (30W/Port) + 2*100Fx Multi-Mode 2Km, 12-36VDC; EOT: -40 to 75C
LNP-800-M12-T	8-Port EN50155 Industrial PoE Unmanaged Ethernet Switch, w/4*10/100Tx (15.4W/Port) M12 Connector + 4*10/100Tx M12 Connector; EOT: -40 to 80C

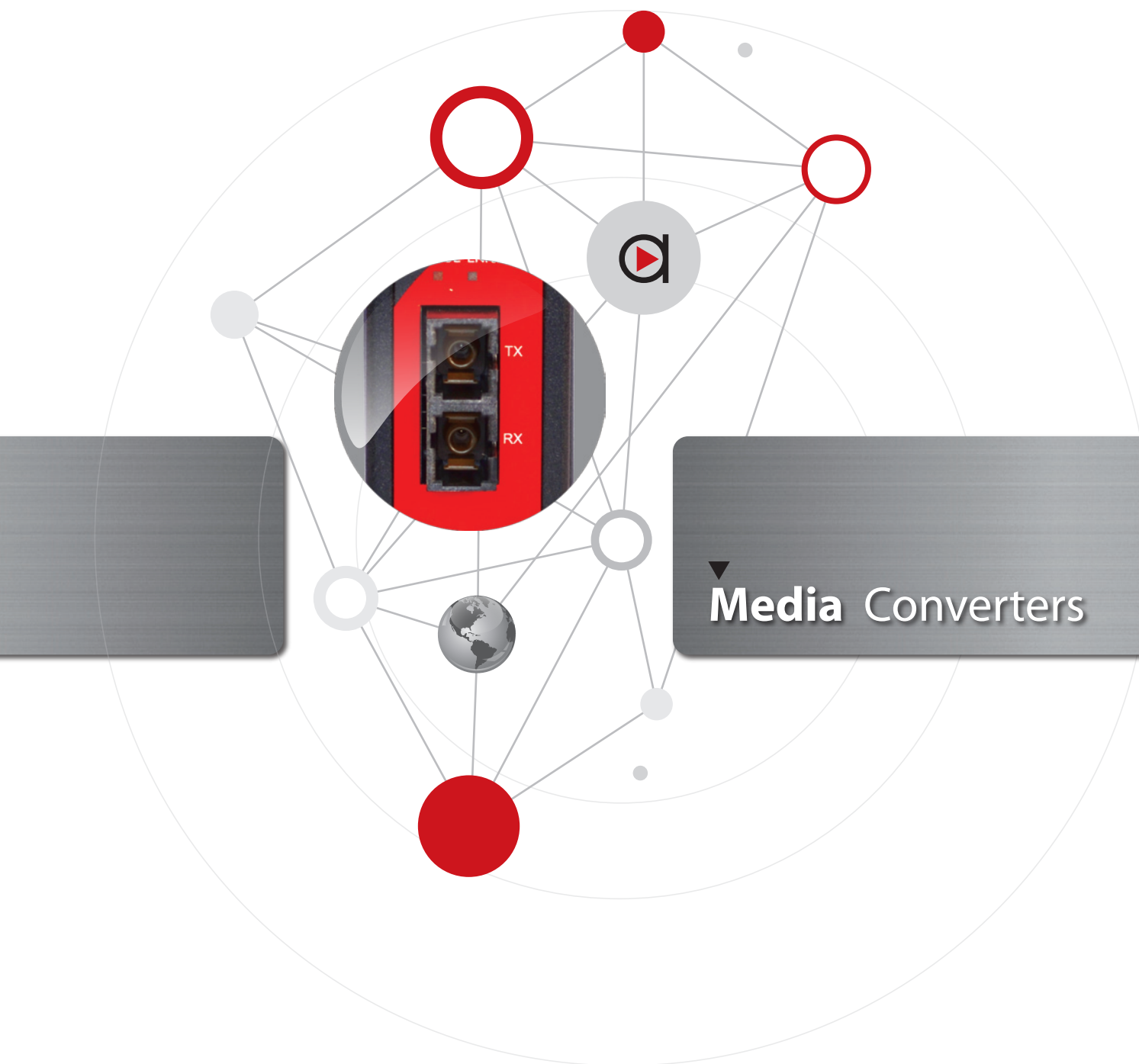
Industrial 10/100/1000 PoE Unmanaged Ethernet Switches

LNP-601AGH-SFP	6-Port Industrial PoE+ Unmanaged Ethernet Switch, w/4*10/100/1000Tx, (30W/Port), 1*10/100/1000Tx + 1*SFP Slot
LNP-601AGH-SFP-T	6-Port Industrial PoE+ Unmanaged Ethernet Switch, w/4*10/100/1000Tx, (30W/Port), 1*10/100/1000Tx + 1*SFP Slot; EOT: -40 to 80C
LNP-602AGH	6-Port Industrial PoE+ Unmanaged Ethernet Switch, w/4*10/100/1000Tx, (30W/Port) + 2*SFP Slots
LNP-602AGH-T	6-Port Industrial PoE+ Unmanaged Ethernet Switch, w/4*10/100/1000Tx, (30W/Port) + 2*SFP Slots; EOT: -40 to 80C
LNP-0702C-SFP	7-Port Industrial PoE+ Unmanaged Ethernet Switch, w/4*10/100Tx (30W/Port), 1*10/100Tx + 2*GigE Combo Ports
LNP-0702C-SFP-24	7-Port Industrial PoE+ Unmanaged Ethernet Switch, w/4*10/100Tx (30W/Port), 1*10/100Tx + 2*GigE Combo Ports; 12~36VDC
LNP-0702C-SFP-24-T	7-Port Industrial PoE+ Unmanaged Ethernet Switch, w/4*10/100Tx (30W/Port), 1*10/100Tx + 2*GigE Combo Ports; 12~36VDC; EOT: -40 to 75C
LNP-0702C-SFP-T	7-Port Industrial PoE+ Unmanaged Ethernet Switch, w/4*10/100Tx (30W/Port), 1*10/100Tx + 2*GigE Combo Ports; EOT: -40 to 75C
LNP-0702G-SFP	7-Port Industrial PoE+ Unmanaged Ethernet Switch, w/4*10/100/100Tx (30W/Port), 1*10/100/1000Tx, + 1*100/1000 SFP Slot
LNP-0702G-SFP-T	7-Port Industrial PoE+ Unmanaged Ethernet Switch, w/4*10/100/100Tx (30W/Port), 1*10/100/1000Tx, + 1*100/1000 SFP Slot; EOT: -40 to 75C
LNP-0702G-SFP-24	7-Port Industrial PoE+ Unmanaged Ethernet Switch, w/4*10/100/100Tx (30W/Port), 1*10/100/1000Tx, + 1*100/1000 SFP Slot, 12~36VDC
LNP-0702G-SFP-24-T	7-Port Industrial PoE+ Unmanaged Ethernet Switch, w/4*10/100/100Tx (30W/Port), 1*10/100/1000Tx, + 1*100/1000 SFP Slot, 12~36VDC; EOT: -40 to 75C
LNP-800AGH	8-Port Industrial PoE+ Unmanaged Ethernet Switch, w/8*10/100/1000Tx (30W/Port)
LNP-800AGH-T	8-Port Industrial PoE+ Unmanaged Ethernet Switch, w/8*10/100/1000Tx (30W/Port); EOT: -40 to 75C
LNP-800AGH-24	8-Port Industrial PoE+ Unmanaged Ethernet Switch, w/8*10/100/1000Tx (30W/Port), 12~36VDC
LNP-0802C-SFP	8-Port Industrial Unmanaged Ethernet Switch, w/6*10/100Tx (30W/Port) + 2*GigE Combo Ports (2*10/100/1000T RJ45, and 2*100/1000 SFP)
LNP-0802C-SFP-T	8-Port Industrial Unmanaged Ethernet Switch, w/6*10/100Tx (30W/Port) + 2*GigE Combo Ports (2*10/100/1000T RJ45, and 2*100/1000 SFP); EOT: -40 to 75C
LNP-0802C-SFP-24	8-Port Industrial Unmanaged Ethernet Switch, w/6*10/100Tx (30W/Port) + 2*GigE Combo Ports (2*10/100/1000T RJ45, and 2*100/1000 SFP); 12~36VDC
LNP-0802C-SFP-24-T	8-Port Industrial Unmanaged Ethernet Switch, w/6*10/100Tx (30W/Port) + 2*GigE Combo Ports (2*10/100/1000T RJ45, and 2*100/1000 SFP); 12~36VDC; EOT: -40 to 75C
LNP-0802G-SFP	8-Port Industrial Unmanaged Ethernet Switch, w/6*10/100/1000Tx (30W/Port) + 2*100/1000 SFP
LNP-0802G-SFP-T	8-Port Industrial Unmanaged Ethernet Switch, w/6*10/100/1000Tx (30W/Port) + 2*100/1000 SFP; EOT: -40 to 75C
LNP-0802G-SFP-24	8-Port Industrial Unmanaged Ethernet Switch, w/6*10/100/1000Tx (30W/Port) + 2*100/1000 SFP; 12~36VDC
LNP-0802G-SFP-24-T	8-Port Industrial Unmanaged Ethernet Switch, w/6*10/100/1000Tx (30W/Port) + 2*100/1000 SFP; 12~36VDC; EOT: -40 to 75C
LNP-800AGH-24-T	8-Port Industrial PoE+ Unmanaged Ethernet Switch, w/8*10/100/1000Tx (30W/Port), 12~36VDC; EOT: -40 to 75C
LNP-1002C-SFP	10-Port Industrial PoE+ Unmanaged Ethernet Switch, w/8*10/100Tx (30W/Port) + 2*GigE Combo Ports (2*10/100/1000T RJ45, and 2*100/1000 SFP)
LNP-1002C-SFP-T	10-Port Industrial PoE+ Unmanaged Ethernet Switch, w/8*10/100Tx (30W/Port) + 2*GigE Combo Ports (2*10/100/1000T RJ45, and 2*100/1000 SFP); EOT: -40 to 75C
LNP-1002C-SFP-24	10-Port Industrial PoE+ Unmanaged Ethernet Switch, w/8*10/100Tx (30W/Port) + 2*GigE Combo Ports (2*10/100/1000T RJ45, and 2*100/1000 SFP); 12~36VDC
LNP-1002C-SFP-24-T	10-Port Industrial PoE+ Unmanaged Ethernet Switch, w/8*10/100Tx (30W/Port) + 2*GigE Combo Ports (2*10/100/1000T RJ45, and 2*100/1000 SFP); 12~36VDC; EOT: -40 to 75C
LNP-1002G-SFP	10-Port Industrial PoE+ Unmanaged Ethernet Switch, w/8*10/100/1000Tx (30W/Port) + 2*100/1000 SFP Slots
LNP-1002G-SFP-T	10-Port Industrial PoE+ Unmanaged Ethernet Switch, w/8*10/100/1000Tx (30W/Port) + 2*100/1000 SFP Slots; EOT: -40 to 75C
LNP-1002G-SFP-24	10-Port Industrial PoE+ Unmanaged Ethernet Switch, w/8*10/100/1000Tx (30W/Port) + 2*100/1000 SFP Slots, 12~36VDC
LNP-1002G-SFP-24-T	10-Port Industrial PoE+ Unmanaged Ethernet Switch, w/8*10/100/1000Tx (30W/Port)+ 2*100/1000 SFP Slots; 12~36VDC; EOT: -40 to 75C



LNP-2804G-SFP	28-Port Industrial PoE+ Unmanaged Ethernet Switch, w/24*10/100/1000Tx (30W/Port) + 4*100/1000 SFP Slots
LNP-2804G-SFP-T	28-Port Industrial PoE+ Unmanaged Ethernet Switch, w/24*10/100/1000Tx (30W/Port)+ 4*100/1000 SFP Slots; - 40 to 75C
Industrial 10/100 PoE Managed Switches	
LMP-0500	5-Port Industrial PoE+ Managed Ethernet Switch w/4*10/100Tx (30W/Port), + 1*10/100Tx
LMP-0500-T	5-Port Industrial PoE+ Managed Ethernet Switch w/4*10/100Tx (30W/Port), + 1*10/100Tx, EOT: -40 to 75C
LMP-0500-24	5-Port Industrial PoE+ Managed Ethernet Switch w/4*10/100Tx (30W/Port), + 1*10/100Tx, 12~36VDC
LMP-0500-24-T	5-Port Industrial PoE+ Managed Ethernet Switch w/4*10/100Tx (30W/Port), + 1*10/100Tx, 12~36VDC, EOT: -40 to 75C
LMP-0501-M	5-Port Industrial PoE+ Managed Ethernet Switch w/4*10/100Tx (30W/Port), + 1*100Fx Multi-Mode 2Km
LMP-0501-M-T	5-Port Industrial PoE+ Managed Ethernet Switch w/4*10/100Tx (30W/Port), + 1*100Fx Multi-Mode 2Km, EOT: -40 to 75C
LMP-0501-ST-M	5-Port Industrial PoE+ Managed Ethernet Switch w/4*10/100Tx (30W/Port), + 1*100Fx Multi-Mode 2Km, ST connector
LMP-0501-ST-M-T	5-Port Industrial PoE+ Managed Ethernet Switch w/4*10/100Tx (30W/Port), + 1*100Fx Multi-Mode 2Km, ST Connector, EOT: -40 to 75C
LMP-0501-M-24	5-Port Industrial PoE+ Managed Ethernet Switch w/4*10/100Tx (30W/Port), + 1*100Fx Multi-Mode 2Km, 12~36VDC
LMP-0501-M-24-T	5-Port Industrial PoE+ Managed Ethernet Switch w/4*10/100Tx (30W/Port), + 1*100Fx Multi-Mode 2Km, 12~36VDC; EOT: -40 to 75C
LMP-0501-ST-M-24	5-Port Industrial PoE+ Managed Ethernet Switch w/4*10/100Tx (30W/Port), + 1*100Fx Multi-Mode 2Km, ST Connector, 12~36VDC
LMP-0501-ST-M-24-T	5-Port Industrial PoE+ Managed Ethernet Switch w/4*10/100Tx (30W/Port), + 1*100Fx Multi-Mode 2Km, ST Connector, 12~36VDC; EOT: -40 to 75C
LMP-0501-S3	5-Port Industrial PoE+ Managed Ethernet Switch w/4*10/100Tx (30W/Port), + 1*100Fx Single-Mode 30Km
LMP-0501-S3-T	5-Port Industrial PoE+ Managed Ethernet Switch w/4*10/100Tx (30W/Port), + 1*100Fx Single-Mode 30Km; EOT: -40 to 75C
LMP-0501-ST-S3	5-Port Industrial PoE+ Managed Ethernet Switch w/4*10/100Tx (30W/Port), + 1*100Fx Single-Mode 30Km, ST Connector
LMP-0501-ST-S3-T	5-Port Industrial PoE+ Managed Ethernet Switch w/4*10/100Tx (30W/Port), + 1*100Fx Single-Mode 30Km; ST Connector; EOT: -40 to 75C
LMP-0501-S3-24	5-Port Industrial PoE+ Managed Ethernet Switch w/4*10/100Tx (30W/Port), + 1*100Fx Single-Mode 30Km, 12~36VDC
LMP-0501-S3-24-T	5-Port Industrial PoE+ Managed Ethernet Switch w/4*10/100Tx (30W/Port), + 1*100Fx Single-Mode 30Km, 12~36VDC; EOT: -40 to 75C
LMP-0501-ST-S3-24	5-Port Industrial PoE+ Managed Ethernet Switch w/4*10/100Tx (30W/Port), + 1*100Fx Single-Mode 30Km, ST Connector, 12~36VDC
LMP-0501-ST-S3-24-T	5-Port Industrial PoE+ Managed Ethernet Switch w/4*10/100Tx (30W/Port), + 1*100Fx Single-Mode 30Km, ST Connector, 12~36VDC; EOT: -40 to 75C
LMP-600N	6* 10/100TX Ports Industrial Managed Ethernet Switch w/ 4 P.S.E. Ports (*Supports High Power: 25W per Port)
LMP-0600	6-Port Industrial PoE+ Managed Ethernet Switch, w/ 4*10/100Tx (30W/Port) + 2*10/100Tx
LMP-0600-T	6-Port Industrial PoE+ Managed Ethernet Switch, w/ 4*10/100Tx (30W/Port) + 2*10/100Tx; EOT: -40 to 75C
LNP-602N-MM	Industrial 6-port Managed PoE Ethernet Switch w/ 4x 10/100TX P.S.E. + 2* 100FX, Multi-Mode 2Km (*Supports High Power - 25W per Port)
LNP-602N-MM-T	Industrial 6-port Managed PoE Ethernet Switch w/ 4x 10/100TX P.S.E. + 2* 100FX, Multi-Mode 2Km (*Supports High Power - 25W per Port), EOT (-40°C to 70°C)
LNP-602N-ST-MM	Industrial 6-port Managed PoE Ethernet Switch w/ 4x 10/100TX P.S.E. + 2* 100FX, Multi-Mode 2Km (*Supports High Power - 25W per Port) with ST Connectors
LNP-602N-ST-MM-T	Industrial 6-port Managed PoE Ethernet Switch w/ 4x 10/100TX P.S.E. + 2* 100FX, Multi-Mode 2Km (*Supports High Power - 25W per Port) with ST Connectors, EOT (-40°C to 70°C)
LNP-602N-SS30	Industrial 6-port Managed PoE Ethernet Switch w/ 4x 10/100TX P.S.E. + 2* 100FX, Single-Mode 30Km (*Supports High Power - 25W per Port)
LNP-602N-SS30-T	Industrial 6-port Managed PoE Ethernet Switch w/ 4x 10/100TX P.S.E. + 2* 100FX, Single-Mode 30Km (*Supports High Power - 25W per Port), EOT (-40°C to 70°C)
LMP-0602-M	6-Port Industrial PoE+ Managed Ethernet Switch, w/ 4*10/100Tx (30W/Port), + 2*100Fx SC connector, Multi-Mode 2Km
LMP-0602-M-T	6-Port Industrial PoE+ Managed Ethernet Switch, w/4*10/100Tx (30W/Port), + 2*100Fx SC connector, Multi-Mode 2Km, EOT: -40 to 75C
LMP-0602-ST-M	6-Port Industrial PoE+ Managed Ethernet Switch, w/ 4*10/100Tx (30W/Port), + 2*100Fx ST connector, Multi-Mode 2Km
LMP-0602-ST-M-T	6-Port Industrial PoE+ Managed Ethernet Switch, w/ 4*10/100Tx (30W/Port), + 2*100Fx ST connector, Multi-mode 2Km, EOT: -40 to 75C
LMP-0602-M-24	6-Port Industrial PoE+ Managed Ethernet Switch w/4*10/100Tx (30W/Port), + 2*100Fx Multi-Mode 2Km, 12~36VDC
LMP-0602-M-24-T	6-Port Industrial PoE+ Managed Ethernet Switch w/4*10/100Tx (30W/Port), + 2*100Fx Multi-Mode 2Km, 12~36VDC; EOT: -40 to 75C
LMP-0602-ST-M-24	6-Port Industrial PoE+ Managed Ethernet Switch w/4*10/100Tx (30W/Port), + 2*100Fx Multi-Mode 2Km, ST Connector, 12~36VDC
LMP-0602-ST-M-24-T	6-Port Industrial PoE+ Managed Ethernet Switch w/4*10/100Tx (30W/Port), + 2*100Fx Multi-Mode 2Km, ST Connector, 12~36VDC; EOT: -40 to 75C
LMP-0602-S3	6-port Industrial PoE+ Managed Ethernet Switch, with 4*10/100Tx (30W/Port), + 2*100Fx SC Connector, Single-Mode 30Km
LMP-0602-S3-T	6-Port Industrial PoE+ Managed Ethernet Switch, with 4*10/100Tx (30W/Port), + 2*100Fx SC Connector, Single-Mode 30Km, EOT: -40 to 75C
LMP-0602-ST-S3	6-Port Industrial PoE+ Managed Ethernet Switch, with 4*10/100Tx (30W/Port), + 2*100Fx ST Connector, Single-Mode 30Km
LMP-0602-ST-S3-T	6-Port Industrial PoE+ Managed Ethernet Switch, with 4*10/100Tx (30W/Port), + 2*100Fx ST Connector, Single-Mode 30Km, EOT: -40 to 75C
LMP-0602-S3-24	6-Port Industrial PoE+ Managed Ethernet Switch w/4*10/100Tx (30W/Port), + 2*100Fx Single-Mode 30Km, 12~36VDC
LMP-0602-S3-24-T	6-Port Industrial PoE+ Managed Ethernet Switch w/4*10/100Tx (30W/Port), + 2*100Fx Single-Mode 30Km, 12~36VDC; EOT: -40 to 75C
LMP-0602-ST-S3-24	6-Port Industrial PoE+ Managed Ethernet Switch w/4*10/100Tx (30W/Port), + 2*100Fx Single-Mode 30Km, ST Connector, 12~36VDC
LMP-0602-ST-S3-24-T	6-Port Industrial PoE+ Managed Ethernet Switch w/4*10/100Tx (30W/Port), + 2*100Fx Single-Mode 30Km, ST Connector, 12~36VDC; EOT: -40 to 75C

Industrial 10/100/1000 PoE Managed Switches	
LMP-0601G-SFP	6-Ports Industrial PoE+ Managed Ethernet Switch, w/4*10/100/1000Tx (30W/Port) + 1*10/100/1000Tx + 1*100/1000 SFP Slot
LMP-0601G-SFP-T	6-Ports Industrial PoE+ Managed Ethernet Switch, w/4*10/100/1000Tx (30W/Port) + 1*10/100/1000Tx + 1*100/1000 SFP Slot; EOT: -40 to 75C
LMP-0601G-SFP-24	6-Ports Industrial PoE+ Managed Ethernet Switch, w/4*10/100/1000Tx (30W/Port) + 1*10/100/1000Tx + 1*100/1000 SFP Slot; 12~36VDC
LMP-0601G-SFP-24-T	6-Ports Industrial PoE+ Managed Ethernet Switch, w/4*10/100/1000Tx (30W/Port) + 1*10/100/1000Tx + 1*100/1000 SFP Slot; 12~36VDC; EOT: -40 to 75C
LMP-0702G-SFP	7-Port Industrial PoE+ Managed Ethernet Switch, w/4*10/100/1000Tx (30W/Port) + 1*10/100/1000Tx + 2*100/1000 SFP Slot
LMP-0702G-SFP-T	7-Port Industrial PoE+ Managed Ethernet Switch, w/4*10/100/1000Tx (30W/Port) + 1*10/100/1000Tx + 2*100/1000 SFP Slot; EOT: -40 to 75C
LMP-0702G-SFP-24	7-Port Industrial PoE+ Managed Ethernet Switch, w/4*10/100/1000Tx (30W/Port) + 1*10/100/1000Tx + 2*100/1000 SFP Slot; 12~36VDC
LMP-0702G-SFP-24-T	7-Port Industrial PoE+ Managed Ethernet Switch, w/4*10/100/1000Tx (30W/Port) + 1*10/100/1000Tx + 2*100/1000 SFP Slot; 12~36VDC; EOT: -40 to 75C
LMP-0802C-SFP	8-Port Industrial Managed Ethernet Switch, w/6*10/100Tx (30W/Port) + 2*GigE Combo Ports (2*10/100/1000T RJ45, and 2*100/1000 SFP)
LMP-0802C-SFP-T	8-Port Industrial Managed Ethernet Switch, w/6*10/100Tx (30W/Port) + 2*GigE Combo Ports (2*10/100/1000T RJ45, and 2*100/1000 SFP); EOT: -40 ~ 75C
LMP-0802C-SFP-24	8-Port Industrial Managed Ethernet Switch, w/6*10/100Tx (30W/Port) + 2*GigE Combo Ports (2*10/100/1000T RJ45, and 2*100/1000 SFP); 12~36VDC
LMP-0802C-SFP-24-T	8-Port Industrial Managed Ethernet Switch, w/6*10/100Tx (30W/Port) + 2*GigE Combo Ports (2*10/100/1000T RJ45, and 2*100/1000 SFP); 12~36VDC; EOT: -40 ~ 75C
LMP-0802G-SFP	8-Port Industrial Managed Ethernet Switch, w/6*10/100/1000Tx (30W/Port) + 2*100/1000 SFP
LMP-0802G-SFP-T	8-Port Industrial Managed Ethernet Switch, w/6*10/100/1000Tx (30W/Port) + 2*100/1000 SFP; EOT: -40 ~ 75C
LMP-0802G-SFP-24	8-Port Industrial Managed Ethernet Switch, w/6*10/100/1000Tx (30W/Port) + 2*100/1000 SFP; 12~36VDC
LMP-0802G-SFP-24-T	8-Port Industrial Managed Ethernet Switch, w/6*10/100/1000Tx (30W/Port) + 2*100/1000 SFP; 12~36VDC; EOT: -40 ~ 75C
LNP-1002GN	10-Port Industrial PoE Managed Ethernet Switch, w/8*10/100Tx (15.4W/Port) + 2*GigE Combo Ports
LNP-1002GN-T	10-Port Industrial PoE Managed Ethernet Switch, w/8*10/100Tx (15.4W/Port) + 2*GigE Combo Ports; EOT: -40 to 80C
LMP-1002C-SFP	10-Port Industrial PoE+ Managed Ethernet Switch, w/8*10/100Tx (30W/port) + 2*GigE Combo (2*10/100/1000T RJ45, and 2*100/1000 SFP Slot)
LMP-1002C-SFP-T	10-Port Industrial PoE+ Managed Ethernet Switch, w/8*10/100Tx (30W/port) + 2*GigE Combo (2*10/100/1000T RJ45, and 2*100/1000 SFP Slot); EOT: -40 to 75C
LMP-1002C-SFP-24	10-Port Industrial PoE+ Managed Ethernet Switch, w/8*10/100Tx (30W/port) + 2*GigE Combo (2*10/100/1000T RJ45, and 2*100/1000 SFP Slot), 12~36VDC
LMP-1002C-SFP-24-T	10-Port Industrial PoE+ Managed Ethernet Switch, w/8*10/100Tx (30W/port) + 2*GigE Combo (2*10/100/1000T RJ45, and 2*100/1000 SFP Slot), 12~36VDC; EOT: -40 to 75C
LMP-1002G-SFP	10-Port Industrial PoE+ Managed Ethernet Switch, w/8*10/100/1000Tx (30W/Port) + 2*100/1000 SFP Slot
LMP-1002G-SFP-T	10-Port Industrial PoE+ Managed Ethernet Switch, w/8*10/100/1000Tx (30W/Port) + 2*100/1000 SFP Slot; EOT: -40 to 75C
LMP-1002G-SFP-24	10-Port Industrial PoE+ Managed Ethernet Switch, w/8*10/100/1000Tx (30W/Port) + 2*100/1000 SFP Slot, 12~36VDC
LMP-1002G-SFP-24-T	10-Port Industrial PoE+ Managed Ethernet Switch, w/8*10/100/1000Tx (30W/Port) + 2*100/1000 SFP Slot, 12~36VDC; EOT: -40 to 75C
LNP-1204GN	12-Port Industrial PoE+ Managed Ethernet Switch, w/8*10/100/1000Tx (30W/Port) + 4*1000x SFP Slot
LNP-1204GN-T	12-Port Industrial PoE+ Managed Ethernet Switch, w/8*10/100/1000Tx (30W/Port) + 4*1000x SFP Slot; EOT: -40 to 70C
LMP-1602G-SFP	16-Port Industrial PoE+ Managed Ethernet Switch, w/14*10/100/1000Tx (30W/Port) + 2*100/1000 SFP Slot
LMP-1602G-SFP-T	16-Port Industrial PoE+ Managed Ethernet Switch, w/14*10/100/1000Tx (30W/Port) + 2*100/1000 SFP Slot; EOT: -40 to 75C
LMP-1602G-SFP-24	16-Port Industrial PoE+ Managed Ethernet Switch, w/14*10/100/1000Tx (30W/Port) + 2*100/1000 SFP Slot, 12~36VDC
LMP-1602G-SFP-24-T	16-Port Industrial PoE+ Managed Ethernet Switch, w/14*10/100/1000Tx (30W/Port) + 2*100/1000 SFP Slot, 12~36VDC; EOT: -40 to 75C
LNP-2602GN	26-Port 1U 19" Rackmount Industrial PoE Managed Ethernet Switch, w/24*10/100Tx (15.4W/Port) + 2*GigE Combo Ports
LNP-2602GN-T	26-Port 1U 19" Rackmount Industrial PoE Managed Ethernet Switch, w/24*10/100Tx (15.4W/Port) + 2*GigE Combo Ports; EOT: -35 to 70C
Industrial Ethernet Router	
LNR-3001	Industrial Router with VPN



▼ **Media Converters**

Industrial 10/100 or 1000 Ethernet Media Converters



Model Names	IMC-100A Series	IMC-1000A Series	IMP-100A Series
Type	10/100Tx to Fiber	10/100/1000Tx to Gigabit Fiber	10/100Tx PoE to Fiber
Technology			
IEEE Standard	IEEE 802.3, 802.3u, 802.3x	802.3, 802.3u, 802.3ab, 802.3x, 8023z	802.3, 802.3u, 802.3x, 802.3af
Processing Type	Store and Forward	Store and Forward	Store and Forward
Transmission Distance	Multi-Mode 2Km, Single-Mode 30Km	Multi-Mode 2Km, Single-Mode 30Km	Multi-Mode 2Km, Single-Mode 30Km
Transmission Speed	Up to 100Mbps	Up to 1000Mbps	Up to 100Mbps
Interface			
RJ45 Ports	1*10/100Tx	1*10/100/100/1000Tx	1*10/100Tx
Fiber Port	1*100Fx (SC or ST Connector); Multi-Mode 2Km, Single-Mode 30Km	1*1000 SFP Slot	1*100Fx (SC or ST Connector); Multi-Mode 2Km, Single-Mode 30Km
PoE Pin Out	-	-	V+, V+, V-, V-, for pin 1, 2, 3, 6 (Endspan, MDI-X Alternative A)
Wavelength	1310nm (Multi-Mode and Single-Mode)	850nm, 1310nm, 1550nm	1310nm (Multi-Mode and Single-Mode)
Properties			
Jumo Frame Support	-	9K	-
Dip Switch	Link Lost Forwarding (LLF) & Link Fault Pass Through (LFP)	Link Lost Forwarding (LLF) & Link Fault Pass Through (LFP)	Link Lost Forwarding (LLF) & Link Fault Pass Through (LFP)
Protection			
EFT Protection	3,000 VDC for Power Line	3,000 VDC for Power Line	3,000 VDC for Power Line
ESD Protection	6,000 VDC for Ethernet	6,000 VDC for Ethernet	6,000 VDC for Ethernet
Power Requirements			
Input Voltage	12~48VDC, Redundant Input	12~48VDC, Redundant Input	DC 48V Redundant Power
Fault Output	1*Relay Output	1*Relay Output	1*Relay Output
Connection	1 Removable 6-Contact Terminal Block	1 Removable 6-Contact Terminal Block	1 Removable 6-Contact Terminal Block
Reverse Polarity Protection	Yes	Yes	No
Power Consumption	2.74W	5.28W	3.3W (20W w/ PoE)
Mechanical Characteristics			
Housing	Metal, IP30 Protection	Metal, IP30 Protection	Metal, IP30 Protection
Dimensions	30 x 140 x 95 mm	30 x 140 x 95 mm	31 x 140 x 95 mm
Weight	1.3 lbs.	1.3 lbs.	1.2 lbs.
Mounting	DIN-Rail & Wall Mounting	DIN-Rail & Wall Mounting	DIN-Rail & Wall Mounting
Environmental Limits			
Operating Temperature	STD: -10 to 70C EOT: -40 to 80C	STD: -10 to 70C EOT: -40 to 75C	STD: -10 to 70C EOT: -40 to 80C
Storage Temperature	-40 to 85C	-40 to 85C	-40 to 85C
Ambient Relative Humidity	5 to 95%, (Non-Condensing)	5 to 95%, (Non-Condensing)	5 to 95%, (Non-Condensing)
Regulatory Approvals			
EMI	FCC Class A	FCC Class A	FCC Class A
EMS	EN6100-4-2/3/4/5/6/8/11/12 EN6100-6-2/4	EN6100-4-2/3/4/5/6/8/11/12 EN6100-6-2/4	EN6100-4-2/3/4/5/6/8/11 EN6100-6-2/4
Free Fall/Shock/Vibration	IEC60068-2-32/27/6	IEC60068-2-32/27/6	IEC60068-2-32/27/6
Green	RoHS Compliant	RoHS Compliant	RoHS Compliant
Certifications	FCC, CE, UL, C1D2	FCC, CE, UL, C1D2	FCC, CE, UL
Warranty	5 Years	5 Years	5 Years



Ethernet Extenders over VDSL2



Model Names	EVC-3001		EVC-3010		IVC-4011-T	
Type	10/100 VDSL2/RJ11 to 10/100Tx RJ45		BNC Coaxial to 10/100Tx RJ45		1* 10/100 VDSL2/RJ11 or BNC Coaxial to 4* 10/100Tx RJ45	
Chassis Mountable	Yes		Yes		No	
Hardware Specification						
Ports	10/100Base-TX: 1*RJ-45, Auto-Negotiation and Auto-MDI / MDI-X VDSL: 1*RJ-11, Female Phone Jack PHONE: 1*RJ-11, Built-in Splitters for POTS Connection		10/100Base-TX: 1*RJ-45, Auto-Negotiation and Auto-MDI / MDI-X Coaxial: 1*BNC, Female Connector		10/100Base-TX: 1*RJ-45, Auto-Negotiation and Auto-MDI / MDI-X Coaxial: 1*BNC, Female Connector VDSL: 1*RJ-11, Female Phone Jack PHONE: 1*RJ-11, Built-in Splitters for POTS Connection	
Functionality	<ul style="list-style-type: none"> • CO / CPE Mode Select • Selectable Fast and Interleaved Mode • Selectable Target Band Plan • Selectable Target SNR Mode 		<ul style="list-style-type: none"> • CO / CPE Mode Select • Selectable Fast and Interleaved Mode • Selectable Target Band Plan • Selectable Target SNR Mode 		<ul style="list-style-type: none"> • Master / Slave Mode Select • Selectable Fast and Interleaved Mode • Selectable Target Band Plan • Selectable Target SNR Mode 	
Cabling	<ul style="list-style-type: none"> • 10Base-T: 2-Pair UTP Cat.3,4,5 up to 100m (328ft) • 100Base-TX: 2-Pair UTP Cat.5, up to 100m (328ft) • VDSL: Twisted-Pair Telephone Wires (AWG24 or Better) up to 1.6Km 		<ul style="list-style-type: none"> • 10Base-T: 2-Pair UTP Cat.3,4,5 up to 100m (328ft) • 100Base-TX: 2-Pair UTP Cat.5, up to 100m (328ft) • Coaxial Cable: 50Ohm, RG58A / U, RG58C / U, RG58 U or Equivalent; 75Ohm, RG-6 (Distance up to 3.0Km) 		<ul style="list-style-type: none"> • 10Base-T: 2-Pair UTP Cat.3,4,5 up to 100m (328ft) • 100Base-TX: 2-Pair UTP Cat.5, up to 100m (328ft) • Coaxial Cable: 50Ohm, RG58A / U, RG58C / U, RG58 U or Equivalent; 75Ohm, RG-6 (Distance up to 2.4Km) • VDSL: Twisted-Pair Telephone Wires (AWG24 or Better) up to 1.4Km 	
Protocol Compliance	IEEE 802.3 10Base-T; IEEE 802.3u 100Base-TX		IEEE 802.3 10Base-T; IEEE 802.3u 100Base-TX; IEEE 802.3x		IEEE 802.3 10Base-T; IEEE 802.3u 100Base-TX; IEEE 802.3x	
Encoding	<ul style="list-style-type: none"> • VDSL-DMT - ITU-T G.993.1 VDSL - ITU-T G.997.1 - ITU-T G.993.2 VDSL2 (Profile 17a Support) 		<ul style="list-style-type: none"> • DMT (Discrete Multi-Tone) Line Coding - ITU-T G.997.1 - ITU-T G.993.1 - ITU-T G.993.2 (Profile 17a Support) 		<ul style="list-style-type: none"> • DMT (Discrete Multi-Tone) Line Coding - ITU-T G.997.1 - ITU-T G.993.1 - ITU-T G.993.2 (Profile 17a Support) 	
Performance						
Full VDSL2 Bandwidth up to: (Down Stream / Up Stream)	Asymmetric - 200m -> 100/55Mbps - 400m -> 90/50Mbps - 600m -> 70/40Mbps - 800m -> 60/25Mbps - 1000m -> 45/15Mbps - 1200m -> 35/10Mbps - 1400m -> 30/6Mbps - 1600m -> 25/4Mbps	Symmetric - 200m -> 90/90Mbps - 400m -> 90/90Mbps - 600m -> 70/70Mbps - 800m -> 55/50Mbps - 1000m -> 40/35Mbps - 1200m -> 30/25Mbps - 1400m -> 25/20Mbps - 1600m -> 20/15Mbps	Asymmetric - 200m -> 100/65Mbps - 400m -> 100/64Mbps - 600m -> 100/59Mbps - 800m -> 100/53Mbps - 1000m -> 94/44Mbps - 1200m -> 84/36Mbps - 1400m -> 74/28Mbps - 1600m -> 66/19Mbps - 1800m -> 60/14Mbps - 2000m -> 44/15Mbps - 2200m -> 35/12Mbps - 2400m -> 32/10Mbps - 2600m -> 29/8Mbps - 2800m -> 27/6Mbps - 3000m -> 25/5Mbps	Symmetric - 200m -> 99.7/100Mbps - 400m -> 100/100Mbps - 600m -> 86/91Mbps - 800m -> 79/80Mbps - 1000m -> 69/66Mbps - 1200m -> 60/52Mbps - 1400m -> 51/41Mbps - 1600m -> 45/36Mbps - 1800m -> 40/29Mbps - 2000m -> 27/26Mbps - 2200m -> 23/24Mbps - 2400m -> 22/21Mbps - 2600m -> 20/18Mbps - 2800m -> 18/15Mbps - 3000m -> 17/13Mbps	Asymmetric (RJ11) - 200m -> 99/63Mbps - 400m -> 91/48Mbps - 600m -> 71/32Mbps - 800m -> 53/18Mbps - 1000m -> 38/8Mbps - 1200m -> 33/5Mbps - 1400m -> 28/2Mbps Asymmetric (Coaxial) - 200m -> 99/65Mbps - 400m -> 99/64Mbps - 600m -> 97/59Mbps - 800m -> 94/51Mbps - 1000m -> 84/45Mbps - 1200m -> 73/37Mbps - 1400m -> 61/28Mbps - 1600m -> 54/20Mbps - 1800m -> 48/13Mbps - 2000m -> 38/9Mbps - 2200m -> 35/6Mbps - 2400m -> 31/4Mbps	Symmetric (RJ11) - 200m -> 91/99Mbps - 400m -> 74/79Mbps - 600m -> 54/51Mbps - 800m -> 38/34Mbps - 1000m -> 27/21Mbps - 1200m -> 24/15Mbps - 1400m -> 21/10Mbps Symmetric (Coaxial) - 200m -> 95/99Mbps - 400m -> 92/97Mbps - 600m -> 81/82Mbps - 800m -> 71/70Mbps - 1000m -> 60/57Mbps - 1200m -> 50/44Mbps - 1400m -> 42/33Mbps - 1600m -> 37/27Mbps - 1800m -> 29/22Mbps - 2000m -> 23/21Mbps - 2200m -> 19/17Mbps - 2400m -> 19/13Mbps
Power Requirements						
Input Voltage	5VDC @ 2A		5VDC @ 2A		12~48VDC, Redundant Input	
Mechanical Characteristics						
Dimensions	97 x 69 x 26 mm		97 x 69 x 26 mm		135 x 87.8 x 32 mm	
Weight	0.88 lbs.		0.44 lbs.		1.1 lbs.	
Environmental Limits						
Operating Temperature	0 to 50C		0 to 50C		-40 to 75C	
Storage Temperature	-25 to 70C		-10 to 70C		-40 to 85C	
Ambient Relative Humidity	10 to 90%, (Non-Condensing)		5 to 90%, (Non-Condensing)		5 to 90%, (Non-Condensing)	
Rack Mountable						
Related Chassis	FCU-RACK16S, FCU-RACK16-AC/DC Series		FCU-RACK16S, FCU-RACK16-AC/DC Series		-	
Regulatory Approvals						
Compliance	FCC Part 15 Class A, CE		FCC Part 15 Class A, CE		FCC Part 15 Class A, CE	
Free Fall/Shock/Vibration	IEC60068-2-32/27/6		IEC60068-2-32/27/6		IEC60068-2-32/27/6	
Warranty	2 Years		2 Years		5 Years	

19" Rackmount Media Converter Chassis



Model Names	FCU-RACK16S	FCU-RACK16-AC/DC Series	FCM-CHS2-AC
Type	16-Slot 2U Chassis	16-Slot 2U Chassis	16-Slot 2U Chassis
Hardware Specification			
Number of Module Slots	16 Slots	16 Slots	16 Slots
Chassis Fans	3*Rear Fans	1* Rear Fans	2* Rear Fans
LED Indicators	Power Activity	Power Activity	Power Activity, LAN, COM
Dual Power Supply Option	No	Yes	Yes
Power Requirements			
Output Voltage	DC 5V, 1.6A	DC 5V	DC 48V
Power Consumption	9.5W	9.5W	3.5W
Mechanical Characteristics			
Housing	Iron / Steel / Plastic	Iron / Steel / Plastic	Iron / Steel / Plastic
Dimensions	440 x 285 x 88 mm	440 x 385 x 88 mm	440 x 356 x 88 mm
Weight	15 lbs.	23.76 lbs.	19.8 lbs.
Mounting	19" Rackmount Type	19" Rackmount Type	19" Rackmount Type
Environmental Limits			
Operating Temperature	0 to 50C	0 to 50C	0 to 50C
Storage Temperature	-20 to 60C	-20 to 60C	-20 to 60C
Ambient Relative Humidity	5 to 90%, (Non-Condensing)	5 to 90%, (Non-Condensing)	5 to 90%, (Non-Condensing)
Associated Media Converters			
Media Converters	FCU-100 Series, FCU-3002A Series, EVC Series	FCU-100 Series, FCU-3002A Series, EVC Series	FCM Series
Regulatory Approvals			
Emission / Safety	FCC Class A, CE, RoHS	FCC Class A, CE, RoHS	FCC Class A, CE, RoHS
Warranty	5 Years	5 Years	5 Years



10/100 Ethernet Media Converters (Unmanaged)



Model Names	FCU-100 Series	FCU-100 WDM Series	FCU-1802P Series	FCU-1802P WDM Series
Type	10/100Tx to Fiber	10/100Tx to WDM Fiber	10/100Tx PoE to Fiber	10/100Tx PoE to WDM Fiber
Chassis Mountable	Yes	Yes	No	No
Technology				
IEEE Standard	802.3, 802.3u, 802.3x	802.3, 802.3u, 802.3x	802.3, 802.3u, 802.3x, 802.3af	802.3, 802.3u, 802.3x, 802.3af
Processing Type	Store and Forward	Store and Forward	Store and Forward	Store and Forward
Transmission Distance	Multi-Mode 2Km Single-Mode 80Km	Multi-Mode 2Km Single-Mode 80Km	Multi-Mode 2Km Single-Mode 30Km	Multi-Mode 2Km Single-Mode 30Km
Transmission Speed	Up to 100Mbps	Up to 100Mbps	Up to 100Mbps	Up to 100Mbps
Interface				
RJ45 Ports	1*10/100Tx	1*10/100Tx	1 x 10/100Tx	1 x 10/100Tx
Fiber Port	1*100Fx	1*100Fx	1*100Fx	1*100Fx
PoE Pin Out	-	-	Pins 1&2 V+ ; Pins 3 &6 V-	Pins 1&2 V+ ; Pins 3 &6 V-
Wavelength	1310nm (Multi-Mode and Single-Mode)	1310nm / 1550nm (Multi-Mode and Single-Mode)	1310nm (Multi-Mode and Single-Mode)	1310nm / 1550nm (Multi-Mode and Single-Mode)
Properties				
Dip Switch	Forced Speed Selectable	Forced Speed Selectable	-	-
Power Requirements				
Input Voltage	DC 5V, 1.6A	DC 5V, 1.6A	48V DC	48V DC
Power Consumption	5W	5W	7W (23W w/ PoE)	7W (23W w/ PoE)
Mechanical Characteristics				
Housing	Metal, IP30 Protection	Metal, IP30 Protection	Metal, IP30 Protection	Metal, IP30 Protection
Dimensions	97 x 70 x 26mm	97 x 70 x 26mm	97 x 70 x 26mm	97 x 70 x 26mm
Weight	1.32 lbs.	1.32 lbs.	0.44 lbs.	0.44 lbs.
Mounting	DIN-Rail & Wall Mounting	DIN-Rail & Wall Mounting	DIN-Rail & Wall Mounting	DIN-Rail & Wall Mounting
Environmental Limits				
Operating Temperature	0 to 50C	0 to 50C	0 to 50C	0 to 50C
Storage Temperature	-20 to 60C	-20 to 60C	-10 to 70C	-10 to 70C
Ambient Relative Humidity	5 to 90%, (Non-Condensing)	5 to 90%, (Non-Condensing)	5 to 90%, (Non-Condensing)	5 to 90%, (Non-Condensing)
Rack Mountable				
Related Chassis	FCU-RACK16S, FCU-RACK16-AC/ DC Series	FCU-RACK16S, FCU-RACK16-AC/ DC Series	-	-
Regulatory Approvals				
EMI	FCC Class A	FCC Class A	FCC Part 15 Class A, CE	FCC Part 15 Class A, CE
Green	RoHS Compliant	RoHS Compliant	RoHS Compliant	RoHS Compliant
Warranty	5 Years	5 Years	2 Years	2 Years

10/100/1000 Ethernet Media Converters (Unmanaged)



Model Names	FCU-2702 Series	FCU-2802 Series	FCU-2805SFP	FCU-2805P-SFP
Type	1000Tx to 1000 Fiber	10/100/1000Tx to 1000 Fiber	10/100/1000Tx to 1000 Fiber	10/100/1000Tx PoE to 1000 Fiber
Chassis Mountable	Yes	Yes	Yes	No
Technology				
IEEE Standard	802.3, 802.3u, 802.3ab, 802.3z	802.3, 802.3u, 802.3ab, 802.3z	802.3, 802.3u, 802.3ab, 802.3z	802.3, 802.3u, 802.3ab, 802.3z, 802.3at/af
Processing Type	Store and Forward	Store and Forward	Store and Forward	Store and Forward
Transmission Distance	Multi-Mode 550m Single-Mode 10Km	Multi-Mode 550m Single-Mode 10Km	Refer to SFP Module	Refer to SFP Module
Transmission Speed	Up to 1000Mbps	Up to 1000Mbps	Up to 1000Mbps	Up to 1000Mbps
Interface				
RJ45 Ports	1*1000Tx	1*10/100/1000Tx	1*10/100/1000Tx	1*10/100/1000Tx (Up to 30W PoE)
Fiber Port	1*1000Sx/Lx (SC Connector)	1*1000Sx/Lx (SC Connector)	1*1000 SFP Slot	1*1000 SFP Slot
PoE Pin Out	-	-	-	V+, V+, V-, V-, for pin 1, 2, 3, 6 (Endspan, MDI-X Alternative A)
Wavelength	850nm (Multi-Mode) 1310nm (Single-Mode)	850nm (Multi-Mode) 1310nm (Single-Mode)	Refer to SFP Module	Refer to SFP Module
Properties				
Jumo Frame Support	-	9K	9K	9K
Dip Switch	Link Fault Pass Through (LFP)	Link Fault Pass Through (LFP)	Link Fault Pass Through (LFP)	Link Fault Pass Through (LFP)
Power Requirements				
Input Voltage	5V DC	5V DC	5V DC, 2A	52V DC
Connection	Barrel Adapter	Barrel Adapter	Barrel Adapter	Barrel Adapter
Power Consumption	5W	5W	5W	5W (35W w/ PoE)
Mechanical Characteristics				
Housing	Metal, IP30 Protection	Metal, IP30 Protection	Metal, IP30 Protection	Metal, IP30 Protection
Dimensions	97 x 70 x 26 mm	97 x 70 x 26 mm	97 x 70 x 26mm	97 x 70 x 26mm
Weight	0.44 lbs.	0.44 lbs.	0.44 lbs.	0.44 lbs.
Mounting	Rack, DIN-Rail & Wall Mounting	Rack, DIN-Rail & Wall Mounting	Rack, DIN-Rail & Wall Mounting	Rack, DIN-Rail & Wall Mounting
Environmental Limits				
Operating Temperature	0 to 50C	0 to 50C	0 to 50C	0 to 50C
Storage Temperature	-10 to 60C	-10 to 60C	-10 to 75C	-10 to 75C
Ambient Relative Humidity	5 to 95%, (Non-Condensing)	5 to 95%, (Non-Condensing)	5 to 95%, (Non-Condensing)	5 to 95%, (Non-Condensing)
Rack Mountable				
Related Chassis	FCU-RACK16S, FCU-RACK16-AC/ DC Series	FCU-RACK16S, FCU-RACK16-AC/ DC Series	FCU-RACK16S, FCU-RACK16-AC/ DC Series	-
Regulatory Approvals				
Green	RoHS Compliant	RoHS Compliant	RoHS Compliant	RoHS Compliant
Certifications	FCC, CE	FCC, CE	FCC, CE	FCC, CE
Warranty	2 Years	2 Years	2 Years	2 Years

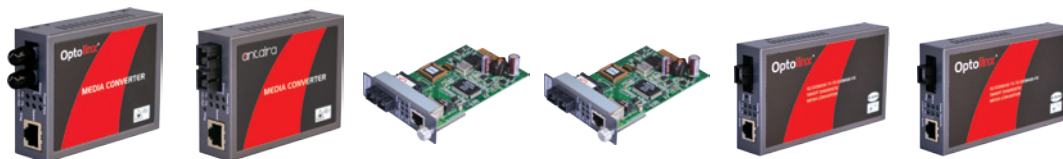


10/100/1000 Ethernet Media Converters (Unmanaged)



Model Names	FCU-3002A Series	FCU-3002A WDM Series	FCU-3002A-SFP Series	FCU-3102SFP-SFP-DR	FCU-5002-SFP+
Type	10/100/1000Tx to 1000 Fiber	10/100/1000Tx to 1000 WDM Fiber	10/100/1000Tx to 1000 Fiber	10/100/1000Tx to 1000 Fiber	10G SFP+ to 10G SFP+
Chassis Mountable	Yes	Yes	Yes	Yes	Yes
Technology					
IEEE Standard	802.3, 802.3u, 802.3ab, 802.3z, 802.3x	802.3, 802.3u, 802.3ab, 802.3z, 802.3x	802.3, 802.3u, 802.3ab, 802.3z, 802.3x	802.3u, 802.3z	802.3ae
Processing Type	Store and Forward	Store and Forward	Store and Forward	Store and Forward	Store and Forward
Transmission Distance	Multi-Mode 550m Single-Mode up to 20Km	Multi-Mode 550m Single-Mode up to 80Km	Multi-Mode 550m Single-Mode up to 20Km	Refer to SFP Module	Refer to SFP Module
Transmission Speed	Up to 1000Mbps	Up to 1000Mbps	Up to 1000Mbps	Up to 1000Mbps	Up to 10,000Mbps
Interface					
RJ45 Ports	1*10/100/1000Tx	1*10/100/1000Tx	1*10/100/1000Tx	-	-
Fiber Port	1*1000Sx/Lx (SC Connector)	1*1000Sx/Lx (SC Connector)	1*1000 or 1*100/1000 SFP Slot	2*100/1000 SFP Slot	2*10G SFP+ Slot
PoE Pin Out	-	-	-	-	-
Wavelength	850nm (Multi-Mode) 1310nm (Single-Mode)	1310nm, 1550nm (Multi-Mode) 1310nm, 1550nm / 1310nm, 1490nm (Single-Mode)	Refer to SFP Module	Refer to SFP Module	Refer to SFP+ Module
Properties					
Jumbo Frame Support	9K	9K	9K	9K	9K
Dip Switch	Link Fault Pass Through (LFP)	Link Fault Pass Through (LFP)	Link Fault Pass Through (LFP)	Link Fault Pass Through (LFP)	Link Fault Pass Through (LFP)
Power Requirements					
Input Voltage	DC 5V	DC 5V	DC 5V	DC 5V	DC 5V
Connection	Barrel Adapter	Barrel Adapter	Barrel Adapter	Barrel Adapter	Barrel Adapter
Power Consumption	3W	3W	3W	AC 110V: 2.5W ; DC 5V: 1.8W	DC 4.3W; AC 5.8W
Mechanical Characteristics					
Housing	Metal, IP30 Protection	Metal, IP30 Protection	Metal, IP30 Protection	Metal, IP30 Protection	Metal, IP30 Protection
Dimensions	71 x 94 x 26 mm	71 x 94 x 26 mm	71 x 94 x 26 mm	71 x 94 x 26 mm	71 x 94 x 26 mm
Weight	1.32 lbs.	1.32 lbs.	1.32 lbs.	1.32 lbs.	1.32 lbs.
Mounting	DIN-Rail & Wall Mounting	DIN-Rail & Wall Mounting	DIN-Rail & Wall Mounting	DIN-Rail & Wall Mounting	DIN-Rail & Wall Mounting
Environmental Limits					
Operating Temperature	0 to 50C	0 to 50C	0 to 50C	0 to 50C	0 to 50C
Storage Temperature	-20 to 60C	-20 to 60C	-20 to 60C	-20 to 60C	-20 to 60C
Ambient Relative Humidity	5 to 90%, (Non-Condensing)	5 to 90%, (Non-Condensing)	5 to 90%, (Non-Condensing)	5 to 90%, (Non-Condensing)	5 to 90%, (Non-Condensing)
Rack Mountable					
Related Chassis	FCU-RACK16S, FCU-RACK16-AC/DC Series	FCU-RACK16S, FCU-RACK16-AC/DC Series	FCU-RACK16S, FCU-RACK16-AC/DC Series	FCU-RACK16S, FCU-RACK16-AC/DC Series	FCU-RACK16S, FCU-RACK16-AC/DC Series
Regulatory Approvals					
Green	RoHS Compliant	RoHS Compliant	RoHS Compliant	RoHS Compliant	RoHS Compliant
Certifications	FCC, CE	FCC, CE	FCC, CE	FCC, CE	FCC, CE
Warranty	5 Years	5 Years	5 Years	5 Years	5 Years

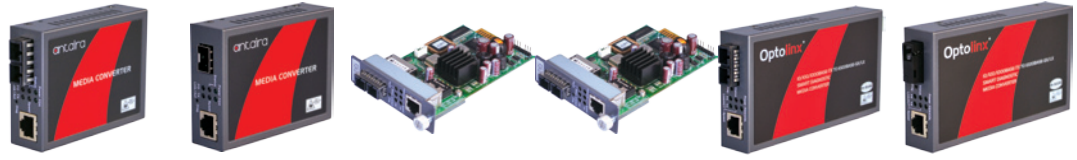
10/100 or 1000 Managed Ethernet Media Converters



Model Names	FCN-2112 Series	FCN-2112 WDM Series	FCM-2312 Series	FCM-2312 WDM Series	FCS-2312 Series	FCS-2312 WDM Series
Type	10/100Tx to Fiber	10/100Tx to WDM Fiber	10/100Tx to Fiber	10/100Tx to WDM Fiber	10/100Tx to Fiber	10/100Tx to WDM Fiber
Chassis Mountable	Yes	Yes	Required	Required	No	No
Technology						
IEEE Standard	802.3, 802.3u, 802.3x	802.3, 802.3u, 802.3x	802.3, 802.3u	802.3, 802.3u	802.3, 802.3u	802.3, 802.3u
Processing Type	Store and Forward	Store and Forward	Store and Forward	Store and Forward	Store and Forward	Store and Forward
MAC Table Size	1K	1K	1K	1K	1K	1K
Transmission Distance	Multi-Mode 2Km, Single-Mode 50Km	Multi-Mode 2Km, Single-Mode 60Km	Multi-Mode 2Km, Single-Mode 50Km	Multi-Mode 2Km, Single-Mode 60Km	Multi-Mode 2Km, Single-Mode 50Km	Multi-Mode 2Km, Single-Mode 60Km
Transmission Speed	Up to 100Mbps	Up to 100Mbps	Up to 100Mbps	Up to 100Mbps	Up to 100Mbps	Up to 100Mbps
Network Management						
System Configuration	SNMP / Web Console	SNMP / Web Console	Chassis Management	Chassis Management	SNMP / Web Console	SNMP / Web Console
IEEE 802.1Q VLAN	Port Based & Tag Based	Port Based & Tag Based	-	-	Port Based & Tag Based	Port Based & Tag Based
Interface						
RJ45 Ports	1* 10/100Tx	1* 10/100Tx	1* 10/100Tx	1* 10/100Tx	1* 10/100Tx	1* 10/100Tx
Fiber Port	1* 100Fx	1* 100Fx	1* 100Fx	1* 100Fx	1* 100Fx	1* 100Fx
Wavelength	1310nm (Multi/Single-Mode)	1310/1550nm (Multi/Single-Mode)	1310nm (Multi/Single-Mode)	1310/1550nm (Multi/Single-Mode)	1310nm (Multi/Single-Mode)	1310/1550nm (Multi/Single-Mode)
Properties						
Dip Switch	Auto/Speed/Duplex/ Auto MDIX/MDIX/ Link-Fault-Pass-Through	Auto/Speed/Duplex/ Auto MDIX/MDIX/ Link-Fault-Pass-Through	Auto/Speed/Duplex/ Auto MDIX/MDIX/ Link-Fault-Pass-Through	Auto/Speed/Duplex/ Auto MDIX/MDIX/ Link-Fault-Pass-Through	Auto/Speed/Duplex/ Auto MDIX/MDIX/ Link-Fault-Pass-Through	Auto/Speed/Duplex/ Auto MDIX/MDIX/ Link-Fault-Pass-Through
Power Requirements						
Input Voltage	DC 5V	DC 5V	DC 12V	DC 12V	DC 12V	DC 12V
Connection	Barrel Adapter	Barrel Adapter	Barrel Adapter	Barrel Adapter	Barrel Adapter	Barrel Adapter
Reverse Polarity Protection	No	No	No	No	No	No
Power Consumption	3W	3W	3.5W	3.5W	3.5W	3.5W
Mechanical Characteristics						
Housing	Metal, IP30 Protection	Metal, IP30 Protection	PCB Card Style	PCB Card Style	Metal, IP30 Protection	Metal, IP30 Protection
Dimensions	91 x 71 x 26 mm	91 x 71 x 26 mm	119 x 86 x 25 mm	119 x 86 x 25 mm	140 x 78 x 26 mm	140 x 78 x 26 mm
Weight	1.3 lbs.	1.3 lbs.	0.66 lbs.	0.66 lbs.	1.8 lbs.	1.8 lbs.
Mounting	Rack, DIN-Rail & Wall Mounting	Rack, DIN-Rail & Wall Mounting	Rack, DIN-Rail & Wall Mounting	Rack, DIN-Rail & Wall Mounting	Rack, DIN-Rail & Wall Mounting	Rack, DIN-Rail & Wall Mounting
Environmental Limits						
Operating Temperature	0 to 50C	0 to 50C	0 to 50C	0 to 50C	0 to 50C	0 to 50C
Storage Temperature	-20 to 60C	-20 to 60C	-20 to 60C	-20 to 60C	-20 to 60C	-20 to 60C
Ambient Relative Humidity	5% to 90% (Non-Condensing)	5% to 90% (Non-Condensing)	5% to 90% (Non-Condensing)	5% to 90% (Non-Condensing)	5% to 90% (Non-Condensing)	5% to 90% (Non-Condensing)
Regulatory Approvals						
Green	RoHS Compliant	RoHS Compliant	RoHS Compliant	RoHS Compliant	RoHS Compliant	RoHS Compliant
Certifications	FCC Class A, CE	FCC Class A, CE	FCC Class A, CE	FCC Class A, CE	FCC Class A, CE	FCC Class A, CE
Warranty	5 Years	5 Years	5 Years	5 Years	5 Years	5 Years



10/100 or 1000 Managed Ethernet Media Converters



Model Names	FCN-3112 Series	FCN-3112 WDM Series	FCM-3312 Series	FCM-3312 WDM Series	FCS-3312 Series	FCS-3312 WDM Series
Type	10/100/1000Tx to 1000Fx	10/100/1000Tx to WDM 1000Fx	10/100/1000Tx to 1000Fx	10/100/1000Tx to WDM 1000Fx	10/100/1000Tx to 1000Fx	10/100/1000Tx to WDM 1000Fx
Chassis Mountable	Yes	Yes	Required	Required	No	No
Technology						
IEEE Standard	802.3, 802.3u, 802.3z, 802.3x, 802.3ab	802.3, 802.3u, 802.3z, 802.3x, 802.3ab	802.3, 802.3u, 802.3z, 802.3ab	802.3, 802.3u, 802.3z, 802.3ab	802.3, 802.3u, 802.3z, 802.3ab	802.3, 802.3u, 802.3z, 802.3ab
Processing Type	Store and Forward	Store and Forward	Store and Forward	Store and Forward	Store and Forward	Store and Forward
MAC Table size	1K	1K	4K	4K	4K	4K
Transmission Distance	Multi-Mode 2Km, Single-Mode 50Km	Multi-Mode 2Km, Single-Mode 60Km	Multi-Mode 2Km, Single-Mode 50Km	Multi-Mode 2Km, Single-Mode 60Km	Multi-Mode 2Km, Single-Mode 50Km	Multi-Mode 2Km, Single-Mode 60Km
Transmission Speed	Up to 1000Mbps	Up to 1000Mbps	Up to 1000Mbps	Up to 1000Mbps	Up to 1000Mbps	Up to 1000Mbps
Network Management						
System Configuration	SNMP / Web Console	SNMP / Web Console	SNMP / Web Console	SNMP / Web Console	SNMP / Web Console	SNMP / Web Console
IEEE 802.1Q VLAN	Port Based & Tag Based	Port Based & Tag Based	Port Based & Tag Based	Port Based & Tag Based	Port Based & Tag Based	Port Based & Tag Based
Interface						
RJ45 Ports	1*10/100/1000Tx	1*10/100/1000Tx	1*10/100/1000Tx	1*10/100/1000Tx	1*10/100/1000Tx	1*10/100/1000Tx
Fiber Port	1* 1000Fx	1* 1000Fx	1* 1000Fx	1* 1000Fx	1* 1000Fx	1* 1000Fx
Wavelength	850nm (Multi-Mode) 1310nm (Single-Mode)	1310nm, 1550nm (Multi-Mode) 1310nm, 1550nm / 1310nm, 1490nm (Single-Mode)	850nm (Multi-Mode) 1310nm (Single-Mode)	1310nm, 1550nm (Multi-Mode) 1310nm, 1550nm / 1310nm, 1490nm (Single-Mode)	850nm (Multi-Mode) 1310nm (Single-Mode)	1310nm, 1550nm (Multi-Mode) 1310nm, 1550nm / 1310nm, 1490nm (Single-Mode)
Properties						
Dip Switch	Auto/Speed/Duplex/ Auto MDIX/MDIX/Link-Fault-Pass-Through	Auto/Speed/Duplex/ Auto MDIX/MDIX/Link-Fault-Pass-Through	Auto/Speed/Duplex/ Auto MDIX/MDIX/Link-Fault-Pass-Through	Auto/Speed/Duplex/ Auto MDIX/MDIX/Link-Fault-Pass-Through	Auto/Speed/Duplex/ Auto MDIX/MDIX/Link-Fault-Pass-Through	Auto/Speed/Duplex/ Auto MDIX/MDIX/Link-Fault-Pass-Through
Power Requirements						
Input Voltage	DC 5V	DC 5V	DC 12V	DC 12V	DC 12V	DC 12V
Connection	Barrel Adapter	Barrel Adapter	Chassis Power	Chassis Power	Barrel Adapter	Barrel Adapter
Reverse Polarity Protection	No	No	No	No	No	No
Power Consumption	3.4W	3.4W	3.7W	3.7W	4.2W	4.2W
Mechanical Characteristics						
Housing	Metal, IP30 Protection	Metal, IP30 Protection	PCB Card Style	PCB Card Style	Metal, IP30 Protection	Metal, IP30 Protection
Dimensions	91 x 71 x 26 mm	91 x 71 x 26 mm	119 x 86 x 25 mm	119 x 86 x 25 mm	140 x 78 x 26 mm	140 x 78 x 26 mm
Weight	1.3 lbs.	1.3 lbs.	0.66 lbs.	0.66 lbs.	1.8 lbs.	1.8 lbs.
Mounting	Rack, DIN-Rail & Wall Mounting	Rack, DIN-Rail & Wall Mounting	Rack Mounted	Rack Mounted	DIN-Rail & Wall Mounting	DIN-Rail & Wall Mounting
Environmental Limits						
Operating Temperature	0 to 50C	0 to 50C	0 to 50C	0 to 50C	0 to 50C	0 to 50C
Storage Temperature	-20 to 60C	-20 to 60C	-20 to 60C	-20 to 60C	-20 to 60C	-20 to 60C
Ambient Relative Humidity	5% to 90% (Non-Condensing)	5% to 90% (Non-Condensing)	5% to 90% (Non-Condensing)	5% to 90% (Non-Condensing)	5% to 90% (Non-Condensing)	5% to 90% (Non-Condensing)
Regulatory Approvals						
Green	RoHS Compliant	RoHS Compliant	RoHS Compliant	RoHS Compliant	RoHS Compliant	RoHS Compliant
Certifications	FCC Class A, CE	FCC Class A, CE	FCC Class A, CE	FCC Class A, CE	FCC Class A, CE	FCC Class A, CE
Warranty	5 Years	5 Years	5 Years	5 Years	5 Years	5 Years

Ordering Information Ethernet Media Converters

Name	Description
IMC Series - Industrial 10/100 or 1000 Ethernet Media Converters	
IMC-100A-M	10/100Tx to 100Fx Industrial Media Converter, Multi-Mode 2Km, SC Connector
IMC-100A-M-T	10/100Tx to 100Fx Industrial Media Converter, Multi-Mode 2Km, EOT: -40 to 80C
IMC-100A-ST-M	10/100Tx to 100Fx Industrial Media Converter, Multi-Mode 2Km, ST Connector
IMC-100A-ST-M-T	10/100Tx to 100Fx Industrial Media Converter, Multi-Mode 2Km, ST Connector, EOT: -40 to 80C
IMC-100A-S3	10/100Tx to 100Fx Industrial Media Converter, Single-Mode 30Km, SC Connector
IMC-100A-S3-T	10/100Tx to 100Fx Industrial Media Converter, Single-Mode 30Km, EOT: -40 to 80C
IMC-100A-S5	10/100Tx to 100Fx Industrial Media Converter, Single-Mode 50Km, SC Connector
IMC-100A-ST-S3	10/100Tx to 100Fx Industrial Media Converter, Single-Mode 30Km, ST Connector
IMC-100A-ST-S3-T	10/100Tx to 100Fx Industrial Media Converter, Single-Mode 30Km, ST Connector, EOT: -40 to 80C
IMC-100A-WA-S2	10/100Tx to 100Fx Industrial Media Converter, Single Fiber (WDM-A), Single-Mode 20Km, Tx1310nm - Rx1550nm
IMC-100A-WB-S2	10/100Tx to 100Fx Industrial Media Converter, Single Fiber (WDM-B), Single-Mode 20Km, Tx1550nm - Rx1310nm
IMC-1000A-SFP	10/100/1000Tx to 1000Lx/Sx Industrial Media Converter, w/ SFP Socket
IMC-1000A-SFP-T	10/100/1000Tx to 1000Lx/Sx Industrial Media Converter, w/ SFP Socket, EOT: -40 to 75C
IMP Series - Industrial 10/100 PoE Ethernet Media Converters	
IMP-100A-M	10/100Tx to 100Fx Industrial PoE Media Converter, Multi-Mode 2Km SC Connector
IMP-100A-M-T	10/100Tx to 100Fx Industrial PoE Media Converter, Multi-Mode 2Km SC Connector, EOT: -40 to 80C
IMP-100A-ST-M-T	10/100Tx to 100Fx Industrial PoE Media Converter, Multi-Mode 2Km ST Connector, EOT: -40 to 80C
IMP-100A-S3	10/100Tx to 100Fx Industrial PoE Media Converter, Single-Mode 30Km SC Connector
IMP-100A-S3-T	10/100Tx to 100Fx Industrial PoE Media Converter, Single-Mode 30Km SC Connector, EOT: -40 to 80C
IMP-100A-WA-M	10/100Tx to 100Fx Industrial PoE Media Converter, Single Fiber (WDM-A) Multi-Mode 2Km SC Connector, Tx1310nm - Rx1510nm
IMP-100A-WB-M	10/100Tx to 100Fx Industrial PoE Media Converter, Single Fiber (WDM-B), Multi-Mode 2Km, Tx1550nm - Rx1310nm
IMP-100A-WA-S2	10/100Tx to 100Fx Industrial PoE Media Converter, Single Fiber (WDM-B) SM 20Km SC Connector, Tx1310nm - Rx1510nm
IMP-100A-WB-S2	10/100Tx to 100Fx Industrial PoE Media Converter, Single Fiber (WDM-B), Single-Mode 20Km, Tx1550nm - Rx1310nm
FCU Series - 10/100Tx Ethernet Media Converters	
FCU-100SC	10/100Tx to 100Fx Media Converter, Multi-Mode 2Km, SC Connector
FCU-100ST	10/100Tx to 100Fx Media Converter, Multi-Mode 2Km, ST Connector
FCU-100SC-S3	10/100Tx to 100Fx Media Converter, Single-Mode 30Km, SC Connector
FCU-100ST-S3	10/100Tx to 100Fx Media Converter, Single-Mode 30Km, ST Connector
FCU-100SC-S5	10/100Tx to 100Fx Media Converter, Single-Mode 50Km, SC Connector
FCU-100SC-S6	10/100Tx to 100Fx Media Converter, Single-Mode 60Km, SC Connector
FCU-100SC-S8	10/100Tx to 100Fx Media Converter, Single-Mode 80Km, SC Connector
FCU-100SC-S120	10/100Tx to 100Fx Media Converter, Single-Mode 120Km, SC Connector
FCU-100WA-M	10/100Tx to 100Fx Single Fiber (WDM), Multi-Mode 2Km, Tx1310nm - Rx1550nm
FCU-100WB-M	10/100Tx to 100Fx Single Fiber (WDM), Multi-Mode 2Km, Tx1550nm - Rx1310nm
FCU-100WA-S2	10/100Tx to 100Fx Single Fiber (WDM), Single-Mode 20Km, Tx1310nm - Rx1550nm
FCU-100WB-S2	10/100Tx to 100Fx Single Fiber (WDM), Single-Mode 20Km, Tx1550nm - Rx1310nm
FCU-100WA-S4	10/100Tx to 100Fx Single Fiber (WDM), Single-Mode 40Km, Tx1310nm - Rx1550nm
FCU-100WB-S4	10/100Tx to 100Fx Single Fiber (WDM), Single-Mode 40Km, Tx1550nm - Rx1310nm
FCU-100WA-S6	10/100Tx to 100Fx Single Fiber (WDM), Single-Mode 60Km, Tx1310nm - Rx1550nm
FCU-100WB-S6	10/100Tx to 100Fx Single Fiber (WDM), Single-Mode 60Km, Tx1550nm - Rx1310nm
FCU-100WA-S8	10/100Tx to 100Fx Single Fiber (WDM), Single-Mode 80Km, Tx1310nm - Rx1550nm
FCU-100WB-S8	10/100Tx to 100Fx Single Fiber (WDM), Single-Mode 80Km, Tx1550nm - Rx1310nm
FCU-1802P-SC	10/100Tx to 100Fx PoE Media Converter, Multi-Mode 2Km, SC Connector
FCU-1802P-SC-S15	10/100Tx to 100Fx PoE Media Converter, Single-Mode 15Km, SC Connector
FCU-1802P-SC-S30	10/100Tx to 100Fx PoE Media Converter, Single-Mode 30Km, SC Connector
FCU-1802P-WA-S2	10/100Tx to 100Fx PoE Media Converter, Single Fiber (WDM-A), Single-Mode 20Km, Tx1310nm - Rx1550nm
FCU-1802P-WB-S2	10/100Tx to 100Fx PoE Media Converter, Single Fiber (WDM-B), Single-Mode 20Km, Tx1310nm - Rx1550nm
FCU-1802WA-S2	10/100Tx to 100Fx Single Fiber (WDM-A), Single-Mode 20Km, Tx1310nm - Rx1550nm
FCU-1802WB-S2	10/100Tx to 100Fx Single Fiber (WDM-B), Single-Mode 20Km, Tx1550nm - Rx1310nm



FCU Series - Gigabit 10/100/1000 Ethernet Media Converters	
FCU-27025C	1000Tx to 1000Sx Media Converter, Multi-Mode 550m, SC Connector
FCU-27025C-S10	1000Tx to 1000Sx Media Converter, Single-Mode 10Km, SC Connector
FCU-28025C	10/100/1000Tx to 1000Sx Media Converter, Multi-Mode 550m, SC Connector
FCU-28025C-S10	10/100/1000Tx to 1000Lx Media Converter, Single-Mode 10Km, SC Connector
FCU-2805P-SFP	10/100/1000Tx to SFP (Mini-GBIC) Media Converter w/ IEEE 802.3at PoE+ Injector Port
FCU-2805SFP	10/100/1000Tx to 1000Sx/Lx Media Converter w/SFP Slot
FCU-3002A-SC	10/100/1000Tx to 1000Sx Media Converter, Multi-Mode 550m, SC Connector
FCU-3002A-SC-S1	10/100/1000Tx to 1000Lx Media Converter, Single-Mode 10Km, SC Connector
FCU-3002A-SC-S2	10/100/1000Tx to 1000Lx Media Converter, Single-Mode 20Km, SC Connector
FCU-3002A-WA-M	10/100/1000Tx to 1000Lx Single Fiber (WDM-A), Multi-Mode 550m, Tx1310nm - Rx1550nm
FCU-3002A-WB-M	10/100/1000Tx to 1000Lx Single Fiber (WDM-B), Multi-Mode 550m, Tx1550nm - Rx1310nm
FCU-3002A-WA-S1	10/100/1000Tx to 1000Lx Single Fiber (WDM-A), Single-Mode 10Km, Tx1310nm - Rx1550nm
FCU-3002A-WB-S1	10/100/1000Tx to 1000Lx Single Fiber (WDM-B), Single-Mode 10Km, Tx1550nm - Rx1310nm
FCU-3002A-WA-S2	10/100/1000Tx to 1000Lx Single Fiber (WDM-A), Single-Mode 20Km, Tx1310nm - Rx1550nm
FCU-3002A-WB-S2	10/100/1000Tx to 1000Lx Single Fiber (WDM-B), Single-Mode 20Km, Tx1550nm - Rx1310nm
FCU-3002A-WA-S4	10/100/1000Tx to 1000Lx Single Fiber (WDM-A), Single-Mode 40Km, Tx1310nm - Rx1550nm
FCU-3002A-WB-S4	10/100/1000Tx to 1000Lx Single Fiber (WDM-B), Single-Mode 40Km, Tx1550nm - Rx1310nm
FCU-3002A-WA-S6	10/100/1000Tx to 1000Lx Single Fiber (WDM), Single-Mode 60Km, Tx1490nm - Rx1550nm
FCU-3002A-WB-S6	10/100/1000Tx to 1000Lx Single Fiber (WDM), Single-Mode 60Km, Tx1550nm - Rx1490nm
FCU-3002A-WA-S8	10/100/1000Tx to 1000Lx Single Fiber (WDM), Single-Mode 80Km, Tx1490nm - Rx1550nm
FCU-3002A-WB-S8	10/100/1000Tx to 1000Lx Single Fiber (WDM), Single-Mode 80Km, Tx1550nm - Rx1490nm
FCU-3002A-SFP	10/100/1000Tx to 1000Sx/Lx Media Converter w/SFP Slot
FCU-3002A-SFP-DR	10/100/1000Tx to 100/1000BASE-X Dual Rate Media Converter w/SFP Slot
FCU-31025FP-SFP-DR	100/1000BASE-X SFP to 100/1000BASE-X SFP Dual Rate Media Converter
FCU-5002-SFP+	10GBase-R SFP+ to 10GBase-R SFP+ Media Converter

FCM, FCN & FCS Series - 10/100 or 1000 Managed Ethernet Media Converters	
FCM-23125C	10/100Tx to 100Fx Managed Media Converter, Multi-Mode 2Km, SC Connector
FCM-23125T	10/100Tx to 100Fx Managed Media Converter, Multi-Mode 2Km, ST Connector
FCM-23125C-S10	10/100Tx to 100Fx Managed Media Converter, Single-Mode 100Km, SC Connector
FCM-23125C-S3	10/100Tx to 100Fx Managed Media Converter, Single-Mode 30Km, SC Connector
FCM-23125C-S5	10/100Tx to 100Fx Managed Media Converter, Single-Mode 50Km, SC Connector
FCM-23125C-S8	10/100Tx to 100Fx Managed Media Converter, Single-Mode 80Km, SC Connector
FCM-2312WA-S2	10/100Tx to 100Fx Single Fiber (WDM) Managed Media Converter, Single-Mode 20Km, Tx1310nm - Rx1550nm
FCM-2312WB-S2	10/100Tx to 100Fx Single Fiber (WDM) Managed Media Converter, Single-Mode 20Km, Tx1550nm - Rx1310nm
FCM-2312WA-S4	10/100Tx to 100Fx Single Fiber (WDM-A) Managed Media Converter, Single-Mode 40Km, Tx1310nm - Rx1550nm
FCM-2312WB-S4	10/100Tx to 100Fx Single Fiber (WDM-B) Managed Media Converter, Single-Mode 40Km, Tx1550nm - Rx1310nm
FCM-2312WA-S6	10/100Tx to 100Fx Single Fiber (WDM-A) Managed Media Converter, Single-Mode 60Km, Tx1310nm - Rx1550nm
FCM-2312WB-S6	10/100Tx to 100Fx Single Fiber (WDM-A) Managed Media Converter, Single-Mode 60Km, Tx1550nm - Rx1310nm
FCM-33125C	10/100/1000Tx to 1000Sx Managed Media Converter, Multi-Mode 550m, SC Connector
FCM-33125C-S1	10/100/1000Tx to 1000Lx Managed Media Converter, Single-Mode 10Km, SC Connector
FCM-33125C-S3	10/100/1000Tx to 1000Lx Managed Media Converter, Single-Mode 30Km, SC Connector
FCM-33125C-S5	10/100/1000Tx to 1000Lx Managed Media Converter, Single-Mode 50Km, SC Connector
FCM-3312WA-M	10/100/1000Tx to 1000Lx Single Fiber (WDM) Managed Media Converter, Multi-Mode 550m, Tx1310nm - Rx1550nm
FCM-3312WB-M	10/100/1000Tx to 1000Lx Single Fiber (WDM-B) Managed Media Converter, Multi-Mode 550m, Tx1550nm - Rx1310nm
FCM-3312WA-S2	10/100/1000Tx to 1000Lx Single Fiber (WDM) Managed Media Converter, Single-Mode 20Km, Tx1310nm - Rx1550nm
FCM-3312WB-S2	10/100/1000Tx to 1000Lx Single Fiber (WDM-B) Managed Media Converter, Single-Mode 20Km, Tx1550nm - Rx1310nm
FCM-3312WA-S4	10/100/1000Tx to 1000Lx Single Fiber (WDM) Managed Media Converter, Single-Mode 40Km, Tx1310nm - Rx1550nm
FCM-3312WB-S4	10/100/1000Tx to 1000Lx Single Fiber (WDM-B) Managed Media Converter, Single-Mode 40Km, Tx1550nm - Rx1310nm
FCM-3312WA-S6	10/100/1000Tx to 1000Lx Single Fiber (WDM) Managed Media Converter, Single-Mode 60Km, Tx1490nm - Rx1550nm
FCM-3312WB-S6	10/100/1000Tx to 1000Lx Single Fiber (WDM-B) Managed Media Converter, Single-Mode 40Km, Tx1550nm - Rx1490nm
FCN-21125C	10/100Tx to 100Fx SNMP Managed Media Converter, Multi-Mode 2Km, SC Connector
FCN-21125T	10/100Tx to 100Fx SNMP Managed Media Converter, Multi-Mode 2Km, ST Connector
FCN-21125C-S3	10/100Tx to 100Fx SNMP Managed Media Converter, Single-Mode 30Km, SC Connector
FCN-21125T-S3	10/100Tx to 100Fx SNMP Managed Media Converter, Single-Mode 30Km, ST Connector
FCN-21125C-S5	10/100Tx to 100Fx SNMP Managed Media Converter, Single-Mode 50Km, SC Connector
FCN-2112WA-S2	10/100Tx to 100Fx Single Fiber (WDM) SNMP Managed Media Converter, SM 20Km, Tx1310nm - Rx1550nm
FCN-2112WB-S2	10/100Tx to 100Fx Single Fiber (WDM) SNMP Managed Media Converter, SM 20Km, Tx1550nm - Rx1310nm
FCN-31125C	10/100/1000Tx to 1000Sx SNMP Managed Media Converter, Multi-Mode 550m, SC Connector
FCN-31125C-S1	10/100/1000Tx to 1000Lx SNMP Managed Media Converter, Single-Mode 10Km, SC Connector
FCN-31125C-S2	10/100/1000Tx to 1000Lx SNMP Managed Media Converter, Single-Mode 20Km, SC Connector
FCN-31125FP	10/100/1000Tx to 1000Sx/Lx SNMP Managed Media Converter, w/ SFP Slot

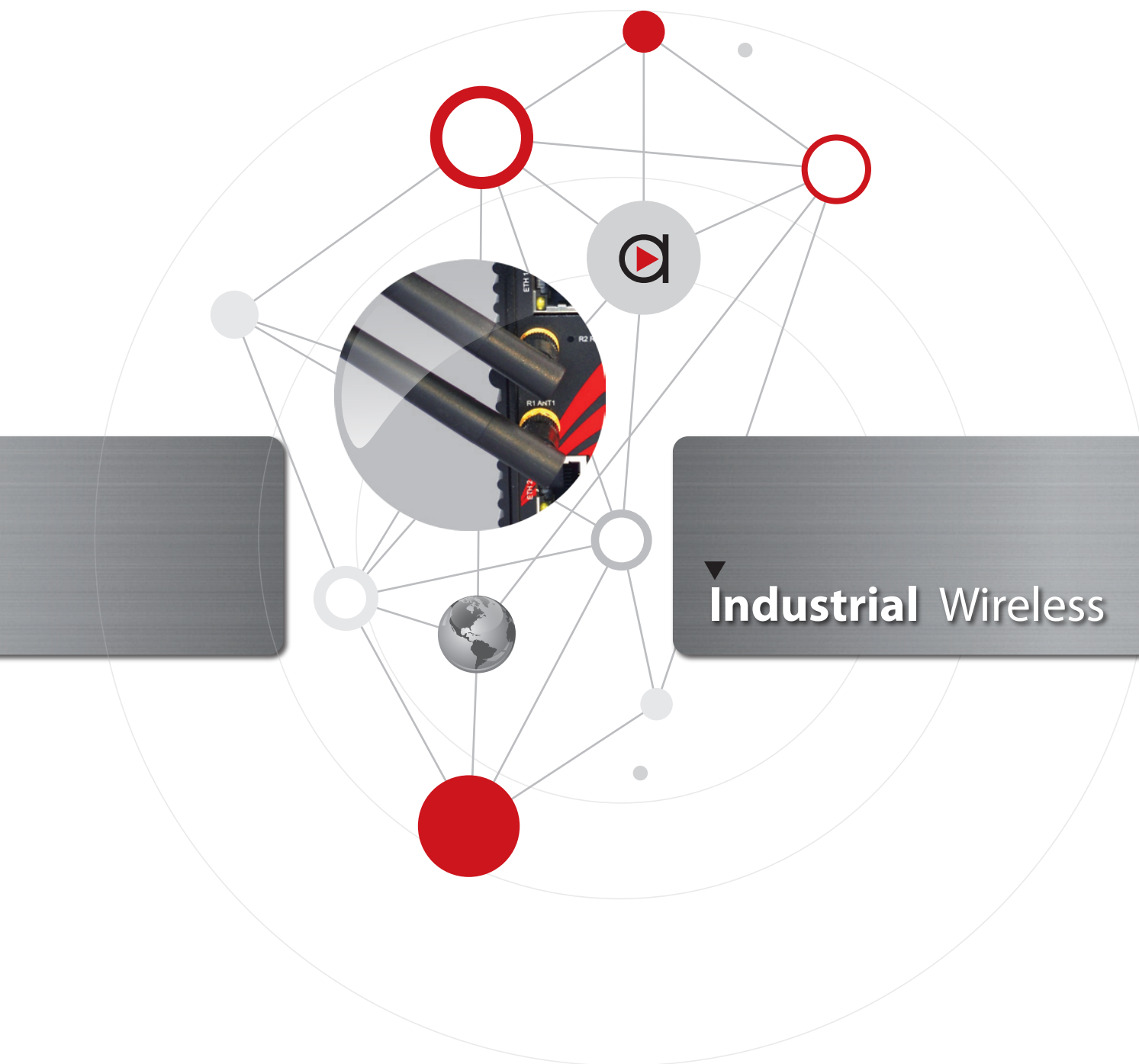
FCN-3112WA-M	10/100/1000Tx to 1000Lx Single Fiber (WDM-A) SNMP Managed Media Converter, Multi-Mode 550m, Tx1310nm - Rx1550nm
FCN-3112WB-M	10/100/1000Tx to 1000Lx Single Fiber (WDM-B) SNMP Managed Media Converter, Multi-Mode 550m, Tx1550nm - Rx1310nm
FCN-3112WA-S1	10/100/1000Tx to 1000Lx Single Fiber (WDM-A) SNMP Managed Media Converter, Single-Mode 10Km, Tx1310nm - Rx1550nm
FCN-3112WB-S1	10/100/1000Tx to 1000Lx Single Fiber (WDM-B) SNMP Managed Media Converter, Single-Mode 10Km, Tx1550nm - Rx1310nm
FCN-3112WA-S2	10/100/1000Tx to 1000Lx Single Fiber (WDM-A) SNMP Managed Media Converter, Single-Mode 20Km, Tx1310nm - Rx1550nm
FCN-3112WB-S2	10/100/1000Tx to 1000Lx Single Fiber (WDM-B) SNMP Managed Media Converter, Single-Mode 20Km, Tx1550nm - Rx1310nm
FCN-3112WA-S6	10/100/1000Tx to 1000Lx Single Fiber (WDM) SNMP Managed Media Converter, Single-Mode 60Km, Tx1490nm - Rx1550nm
FCN-3112WB-S6	10/100/1000Tx to 1000Lx Single Fiber (WDM) SNMP Managed Media Converter, Single-Mode 60Km, Tx1550nm - Rx1490nm
FCS-2312SC	10/100Tx to 100Fx Managed Media Converter, Multi-Mode 2Km, SC Connector
FCS-2312ST	10/100Tx to 100Fx Managed Media Converter, Multi-Mode 2Km, ST Connector
FCS-2312SC-S3	10/100Tx to 100Fx Managed Media Converter, Single-Mode 30Km, SC Connector
FCS-2312SC-S5	10/100Tx to 100Fx Managed Media Converter, Single-Mode 50Km, SC Connector
FCS-2312SC-S8	10/100Tx to 100Fx Managed Media Converter, Single-Mode 80Km, SC Connector
FCS-2312SC-S10	10/100Tx to 100Fx Managed Media Converter, Single-Mode 100Km, SC Connector
FCS-2312WA-S2	10/100Tx to 100Fx Single Fiber (WDM) Managed Media Converter, Single-Mode 20Km, Tx1310nm - Rx1550nm
FCS-2312WB-S2	10/100Tx to 100Fx Single Fiber (WDM) Managed Media Converter, Single-Mode 20Km, Tx1550nm - Rx1310nm
FCS-2312WA-S4	10/100Tx to 100Fx Single Fiber (WDM-A) Managed Media Converter, Single-Mode 40Km, Tx1310nm - Rx1550nm
FCS-2312WB-S4	10/100Tx to 100Fx Single Fiber (WDM-B) Managed Media Converter, Single-Mode 40Km, Tx1550nm - Rx1310nm
FCS-2312WA-S6	10/100Tx to 100Fx Single Fiber (WDM-B) Managed Media Converter, Single-Mode 60Km, Tx1550nm - Rx1310nm
FCS-3312SC	10/100/1000Tx to 1000Sx Managed Media Converter, Multi-Mode 550m, SC Connector
FCS-3312SC-S1	10/100/1000Tx to 1000Lx Managed Media Converter, Single-Mode 10Km, SC Connector
FCS-3312SC-S3	10/100/1000Tx to 1000Lx Managed Media Converter, Single-Mode 30Km, SC Connector
FCS-3312SC-S5	10/100/1000Tx to 1000Lx Managed Media Converter, Single-Mode 50Km, SC Connector
FCS-3312WA-M	10/100/1000Tx to 1000Fx Single Fiber (WDM-A) Managed Media Converter, Multi-Mode 550m, Tx1310nm - Rx1550nm
FCS-3312WB-M	10/100/1000Tx to 1000Fx Single Fiber (WDM-B) Managed Media Converter, Multi-Mode 550m, Tx1550nm - Rx1310nm
FCS-3312WA-S2	10/100/1000Tx to 1000Fx Single Fiber (WDM-A) Managed Media Converter, Single-Mode 20Km, Tx1310nm - Rx1550nm
FCS-3312WB-S2	10/100/1000Tx to 1000Fx Single Fiber (WDM-B) Managed Media Converter, Single-Mode 20Km, Tx1550nm - Rx1310nm
FCS-3312WA-S4	10/100/1000Tx to 1000Fx Single Fiber (WDM-A) Managed Media Converter, Single-Mode 40Km, Tx1310nm - Rx1550nm
FCS-3312WB-S4	10/100/1000Tx to 1000Fx Single Fiber (WDM-B) Managed Media Converter, Single-Mode 40Km, Tx1550nm - Rx1310nm
FCS-3312WA-S6	10/100/1000Tx to 1000Lx Single Fiber (WDM-A) Managed Media Converter, Single-Mode 40Km, Tx1490nm - Rx1550nm
FCS-3312WB-S6	10/100/1000Tx to 1000Lx Single Fiber (WDM-B) Managed Media Converter, Single-Mode 60Km, Tx1550nm - Rx1490nm

Ethernet Extenders over VDSL2

EVC-3001	Ethernet Extender over VDSL2 Converter 1*RJ45, 1*VDSL2/RJ11, 1*Phone - 17a
EVC-3010	1-Port 10/100Base-Tx + 1-Port BNC Ethernet over Coaxial Extender - 17a
IVC-4011-T	IP30 Industrial Ethernet Extender, 4-Port RJ45 (LAN), 1-Port BNC, 1-Port RJ11 (-40 to 75C)

2U 19" Rackmount Media Converter Chassis

FCU-RACK16-AC	16-Slot Unmanaged Universal Media Converter Rack, w/1 AC Power Supply
FCU-RACK16-DC	16-Slot Unmanaged Universal Media Converter Rack, w/1 DC Power Supply
FCU-RACK16S	16-Slot Unmanaged Universal Media Converter Rack, Compact Size, w/1 AC Power Supply
FCU-RACK16S-DC	16-Slot Unmanaged Universal Media Converter Rack, Compact Size, w/1 DC Power Supply
FCM-CHS2-AC	16-Slot In-Band Managed Media Converter Chassis w/1 AC Power Supply
FCM-CHS2-DC	16-Slot In-Band Managed Media Converter Chassis w/1 DC Power Supply



▼ **Industrial Wireless**

Industrial Wireless AP/Bridge/Client



Model Names	APN-210N Series	APN-310N Series	APN-320N Series
Type	IEEE 802.11b/g/n 2.4GHz w/ Single Radio	IEEE 802.11a/b/g/n 2.4/5GHz w/ Single Radio	IEEE 802.11a/b/g/n 2.4/5GHz w/ Dual Radio
Interface			
Number of Units	1	1	1
Number of Radios	1	1	2
Ethernet Port	2 * 10/100Tx per Radio	2 * 10/100Tx per Radio	2 * 10/100Tx per Radio
Antenna	One External SMA Antennas (Supports MIMO)	Two External SMA Antennas (Supports MIMO)	Four External SMA Antennas (Supports MIMO)
Technology			
Protocol	ICMP IP, TCP, UDP, DHCP, BootP, ARP/RARP, DNS, HTTPS, SNMP v1/v2, Trap, STP, Private MIB II	ICMP IP, TCP, UDP, DHCP, BootP, ARP/RARP, DNS, HTTPS, SNMP v1/v2, Trap, STP, Private MIB II	ICMP IP, TCP, UDP, DHCP, BootP, ARP/RARP, DNS, HTTPS, SNMP v1/v2, Trap, STP, Private MIB II
IEEE Standard	802.11, 802.3, 802.3u, 802.3x	802.11, 802.3, 802.3u, 802.3x	802.11, 802.3, 802.3u, 802.3x
Transmit Power	Controllable Power Output (1dB Per Step)	Controllable Power Output (1dB Per Step)	Controllable Power Output (1dB Per Step)
WLAN Operation Mode	AP / Client / Bridge / Repeater	AP / Client / Bridge / Repeater	AP / Client / Bridge / Repeater
Encryption Security	IEEE 802.11i, 802.1x, Radius, PSK, WEP, WPA, TKIP	IEEE 802.11i, 802.1x, Radius, PSK, WEP, WPA, TKIP	IEEE 802.11i, 802.1x, Radius, PSK, WEP, WPA, TKIP
Wireless Security	SSID Broadcast Disable, Virtual Access Point, MAC Address Filter	SSID Broadcast Disable, Virtual Access Point, MAC Address Filter	SSID Broadcast Disable, Virtual Access Point, MAC Address Filter
Frequency Range			
IEEE 802.11b/g	2.412GHz ~ 2.462GHz (US & Canada) 2.412GHz ~ 2.472GHz (Europe) 2.412GHz ~ 2.484GHz (Japan)	2.412GHz ~ 2.462GHz (US & Canada) 2.412GHz ~ 2.472GHz (Europe) 2.412GHz ~ 2.484GHz (Japan)	2.412GHz ~ 2.462GHz (US & Canada) 2.412GHz ~ 2.472GHz (Europe) 2.412GHz ~ 2.484GHz (Japan)
IEEE 802.11a/n	-	5.150 ~ 5.350 GHz, 5.470 ~ 5.725GHz, 5.725 ~ 5.850 GHz (US & Canada) 5.150 ~ 5.350 GHz, 5.470 ~ 5.725GHz, 5.725 ~ 5.875 GHz (Europe) 5.150 ~ 5.250 GHz, 5.250 ~ 5.350GHz, 5.470 ~ 5.725GHz(Japan)	5.150 ~ 5.350 GHz, 5.470 ~ 5.725GHz, 5.725 ~ 5.850 GHz (US & Canada) 5.150 ~ 5.350 GHz, 5.470 ~ 5.725GHz, 5.725 ~ 5.875 GHz (Europe) 5.150 ~ 5.250 GHz, 5.250 ~ 5.350GHz, 5.470 ~ 5.725GHz(Japan)
Power Requirements			
Protection	Ground Screw Designed	Ground Screw Designed	Ground Screw Designed
Power Input	12 ~ 48VDC in 6-Pin Terminal Block	12 ~ 48VDC in 6-Pin Terminal Block	12 ~ 48VDC in 6-Pin Terminal Block
Power Consumption	6W	6W	10W
Radio Power	200mW	100mW	100mW *2
Mechanical Characteristics			
Housing	Metal, IP30 Protection	Metal, IP30 Protection	Metal, IP30 Protection
Dimensions	45 x 155 x 115 mm	45 x 155 x 115 mm	45 x 155 x 115 mm
Weight	1.2 lbs.	1.2 lbs.	1.3 lbs.
Mounting	DIN-Rail & Wall Mounting	DIN-Rail & Wall Mounting	DIN-Rail & Wall Mounting
Environmental Limits			
Operating Temperature	STD: -10 to 60C EOT: -35C to 70C	STD: -10 to 60C EOT: -35 C to 70C	STD: -10 to 60C EOT: -35 to 70C
Storage Temperature	-40 to 90C	-40 to 90C	-40 to 90C
Ambient Relative Humidity	5 to 95%, (Non-Condensing)	5 to 95%, (Non-Condensing)	5 to 95%, (Non-Condensing)
Regulatory Approvals			
Free Fall/Shock/Vibration	IEC60068-2-32/27/6	IEC60068-2-32/27/6	-
Certifications	FCC, RoHS	FCC, RoHS	FCC, RoHS
Reliability			
Warranty	5 Years	5 Years	5 Years



Outdoor IP67 Industrial Wireless AP/Bridge/Client



Model Names	APX-110N5	APX-120N5	APX-3200
Type	IEEE 802.11 a/n 5GHz w/Single Radio	IEEE 802.11 a/n 5GHz w/Single Radio	IEEE 802.11 b/g/n 2.4GHz w/Single Radio
Interface			
Number of Units	1	2	1
Number of Radios	1	1	1
Ethernet Port	1 * 10/100Tx	1 * 10/100Tx per Radio	1 * 10/100Tx
Antenna	One Integrated Panel (Supports MIMO)	One Integrated Panel (Supports MIMO)	Two Omni Directional Antennas (Supports MIMO)
Technology			
Protocol	IP, DHCP, HTTPS, SNMP v1/v2, Trap, STP	IP, DHCP, HTTPS, SNMP v1/v2, Trap, STP	IP, DHCP, HTTPS, SNMP v1/v2, Trap, STP
IEEE Standard	802.11a/n, 802.3, 802.3u, 802.3x	802.11a/n, 802.3, 802.3u, 802.3x	802.11b/g/n, 802.3, 802.3u, 802.3x
Transmit Power	Controllable Power Output (1dB Per Step)	Controllable Power Output (1dB Per Step)	Controllable Power Output (1dB Per Step)
WLAN Operation Mode	AP / Client / Bridge / Repeater	AP / Client / Bridge / Repeater	AP / Client / Bridge / Repeater
Encryption Security	IEEE 802.11i, 802.1x, Radius, PSK, WEP, WPA, TKIP	IEEE 802.11i, 802.1x, Radius, PSK, WEP, WPA, TKIP	IEEE 802.11i, 802.1x, Radius, PSK, WEP, WPA, TKIP
Wireless Security	ESSID Broadcast Disable, MAC Address Filter	ESSID Broadcast Disable, MAC Address Filter	ESSID Broadcast Disable, MAC Address Filter
Frequency Range			
IEEE 802.11b/g	-	-	2.412GHz ~ 2.462GHz (US & Canada) 2.412GHz ~ 2.472GHz (Europe) 2.412GHz ~ 2.484GHz (Japan)
IEEE 802.11a/n	5.150 ~ 5.350 GHz, 5.470 ~ 5.725GHz, 5.725 ~ 5.850 GHz (US & Canada) 5.150 ~ 5.350 GHz, 5.470 ~ 5.725GHz, 5.725 ~ 5.875 GHz (Europe) 5.150 ~ 5.250 GHz, 5.250 ~ 5.350GHz, 5.470 ~ 5.725GHz(Japan)	5.150 ~ 5.350 GHz, 5.470 ~ 5.725GHz, 5.725 ~ 5.850 GHz (US & Canada) 5.150 ~ 5.350 GHz, 5.470 ~ 5.725GHz, 5.725 ~ 5.875 GHz (Europe) 5.150 ~ 5.250 GHz, 5.250 ~ 5.350GHz, 5.470 ~ 5.725GHz(Japan)	-
Power Requirements			
Protection	Ground Screw Designed	Ground Screw Designed	Ground Plate Through Mounting
Power Input	24V or 48V PoE	24V or 48V PoE	48V PoE
Power Consumption	7.5W	7.5W	10W
Radio Power	800mW	800mW	800mW
Mechanical Characteristics			
Housing	Plastic, IP67 Protection	Plastic, IP67 Protection	Metal, IP67 Protection
Dimensions	86 x 257 x 257mm	86 x 257 x 257mm	83 x 267 x 241 mm
Weight	1.85 lbs.	1.85 lbs.	5.15 lbs.
Mounting	Pole Mounting	Pole Mounting	Pole or Wall Mounting
Environmental Limits			
Operating Temperature	-20 to 70C	-20 to 70C	-20 to 70C
Storage Temperature	-40 to 90C	-40 to 90C	-30 to 80C
Ambient Relative Humidity	5 to 95%, (Non-Condensing)	5 to 95%, (Non-Condensing)	5 to 95%, (Non-Condensing)
Regulatory Approvals			
Certifications	FCC, RoHS	FCC, RoHS	FCC, RoHS
Reliability			
Warranty	2 Years	2 Years	5 Years

Outdoor IP67 Industrial Wireless AP/Bridge/Client



Model Names	APX-5200	APX-5500	APX-5700
Type	IEEE 802.11b/g/n 2.4GHz w/ Single Radio	IEEE 802.11a/n 5GHz w/Single Radio	IEEE 802.11a/b/g/n 2.4/5GHz w/ Dual Radio
Interface			
Number of Units	1	1	1
Number of Radios	1	1	2
Ethernet Port	2 * 10/100/1000Tx	2 * 10/100/1000Tx	2 * 10/100/1000Tx
Antenna	Two Omni Directional Antennas (Supports MIMO)	Two Omni Directional Antennas (Supports MIMO)	Four Omni Directional Antennas (Supports MIMO)
Technology			
Protocol	IP, DHCP, HTTPS, SNMP v1/v2, Trap, STP	IP, DHCP, HTTPS, SNMP v1/v2, Trap, STP	IP, DHCP, HTTPS, SNMP v1/v2, Trap, STP
IEEE Standard	802.11b/g/n, 802.3, 802.3u, 802.3x	802.11a/n, 802.3, 802.3u, 802.3x	802.11a/b/g/n, 802.3, 802.3u, 802.3x
Transmit Power	Controllable Power Output (1dB Per Step)	Controllable Power Output (1dB Per Step)	Controllable Power Output (1dB Per Step)
WLAN Operation Mode	AP / Client / Bridge / Repeater	AP / Client / Bridge / Repeater	AP / Client / Bridge / Repeater
Encryption Security	IEEE 802.11i, 802.1x, Radius, PSK, WEP, WPA, TKIP	IEEE 802.11i, 802.1x, Radius, PSK, WEP, WPA, TKIP	IEEE 802.11i, 802.1x, Radius, PSK, WEP, WPA, TKIP
Wireless Security	ESSID Broadcast Disable, MAC Address Filter	ESSID Broadcast Disable, MAC Address Filter	ESSID Broadcast Disable, MAC Address Filter
Frequency Range			
IEEE 802.11b/g	2.412GHz ~ 2.462GHz (US & Canada) 2.412GHz ~ 2.472GHz (Europe) 2.412GHz ~ 2.484GHz (Japan)	-	2.412GHz ~ 2.462GHz (US & Canada) 2.412GHz ~ 2.472GHz (Europe) 2.412GHz ~ 2.484GHz (Japan)
IEEE 802.11a/n	-	5.150 ~ 5.350 GHz, 5.470 ~ 5.725GHz, 5.725 ~ 5.850 GHz (US & Canada) 5.150 ~ 5.350 GHz, 5.470 ~ 5.725GHz, 5.725 ~ 5.875 GHz (Europe) 5.150 ~ 5.250 GHz, 5.250 ~ 5.350GHz, 5.470 ~ 5.725GHz(Japan)	5.150 ~ 5.350 GHz, 5.470 ~ 5.725GHz, 5.725 ~ 5.850 GHz (US & Canada) 5.150 ~ 5.350 GHz, 5.470 ~ 5.725GHz, 5.725 ~ 5.875 GHz (Europe) 5.150 ~ 5.250 GHz, 5.250 ~ 5.350GHz, 5.470 ~ 5.725GHz(Japan)
Power Requirements			
Protection	Ground Plate Through Mounting	Ground Plate Through Mounting	Ground Plate Through Mounting
Power Input	48V PoE	48V PoE	48V PoE
Power Consumption	10W	10W	10W
Radio Power	800mW	800mW	800mW
Mechanical Characteristics			
Housing	Metal, IP67 Protection	Metal, IP67 Protection	Metal, IP67 Protection
Dimensions	83 x 267 x 241 mm	83 x 267 x 241 mm	83 x 267 x 241 mm
Weight	5.15 lbs.	5.15 lbs.	5.15 lbs.
Mounting	Pole or Wall Mounting	Pole or Wall Mounting	Pole or Wall Mounting
Environmental Limits			
Operating Temperature	-20 to 70C	-20 to 70C	-20 to 70C
Storage Temperature	-30 to 80C	-30 to 80C	-30 to 80C
Ambient Relative Humidity	5 to 95%, (Non-Condensing)	5 to 95%, (Non-Condensing)	5 to 95%, (Non-Condensing)
Regulatory Approvals			
Certifications	FCC, RoHS	FCC, RoHS	FCC, RoHS
Reliability			
Warranty	5 Years	5 Years	5 Years



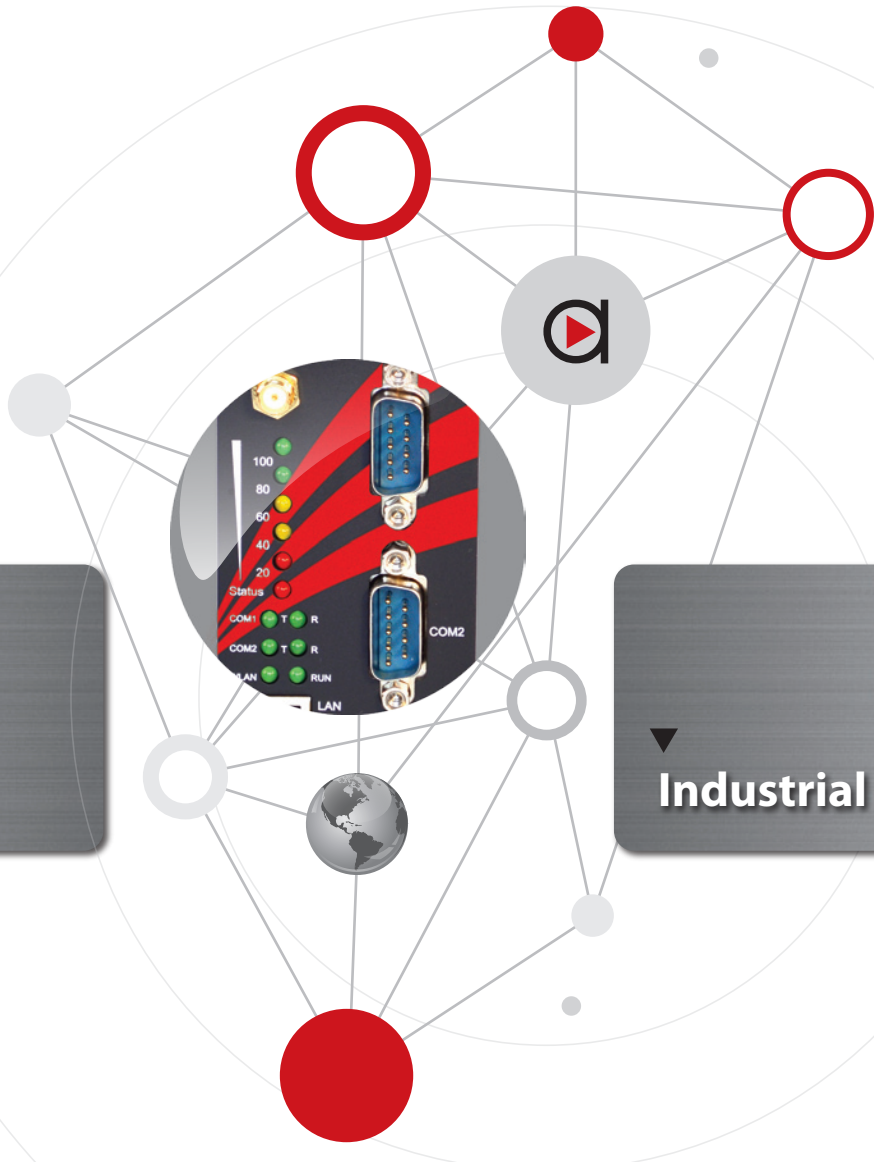
Industrial Wireless Router / LTE Cellular Modem



Model Names	APR-3100N Series	APR-4000 Series	APR-4100N Series
Type	Wireless AP, VPN/Router	VPN/Router, Cellular Modem	Wireless AP, VPN/Router, Cellular Modem
Interface			
Ethernet Port	2 * 10/100Tx	4 * 10/100Tx	4 * 10/100Tx
Antenna	Two External SMA Antennas (Supports MIMO; 1Tx 1Rx)	Four External SMA Antennas (Supports MIMO; 2Tx 2Rx)	Four External SMA Antennas (Supports MIMO; 2Tx 2Rx)
Technology			
Protocol	ICMP IP, TCP, UDP, DHCP, BootP, ARP/RARP, DNS, HTTPS, SNMP v1/v2, Trap, STP, Private MIB	ICMP IP, TCP, UDP, DHCP, BootP, ARP/RARP, DNS, HTTPS, SNMP v1/v2, Trap, STP, Private MIB	ICMP IP, TCP, UDP, DHCP, BootP, ARP/RARP, DNS, HTTPS, SNMP v1/v2, Trap, STP, Private MIB
IEEE Standard	802.11a/b/g/n, 802.3, 802.3u, 802.3x	IEEE 802.3, 802.3u, 802.3x	802.11a/b/g/n, 802.3, 802.3u, 802.3x
Transmit Power	Controllable Power Output (1dB Per Step)	-	Controllable Power Output (1dB Per Step)
Operation Mode	AP / VPN / Router	VPN / Router w/ Cellular Modem	AP / VPN / Router w/ Cellular Modem
Encryption Security	IEEE 802.11i, 802.1x, Radius, PSK, WEP (64&128 bit), WPA, TKIP	IEEE 802.11i, 802.1x, Radius, PSK, WEP (64&128 bit), WPA, TKIP	IEEE 802.11i, 802.1x, Radius, PSK, WEP (64&128 bit), WPA, TKIP
Wireless Security	ESSID Broadcast Disable, 3* Virtual Access Points, MAC Address Filter	ESSID Broadcast Disable, 3* Virtual Access Points, MAC Address Filter	ESSID Broadcast Disable, 3* Virtual Access Points, MAC Address Filter
Frequency Range			
IEEE 802.11b/g	2.412GHz ~ 2.462GHz (US & Canada) 2.412GHz ~ 2.472GHz (Europe) 2.412GHz ~ 2.484GHz (Japan)	-	2.412GHz ~ 2.462GHz (US & Canada) 2.412GHz ~ 2.472GHz (Europe) 2.412GHz ~ 2.484GHz (Japan)
IEEE 802.11a/n	5.150 ~ 5.350 GHz, 5.470 ~ 5.725GHz, 5.725 ~ 5.850 GHz (US & Canada) 5.150 ~ 5.350 GHz, 5.470 ~ 5.725GHz, 5.725 ~ 5.875 GHz (Europe) 5.150 ~ 5.250 GHz, 5.250 ~ 5.350GHz, 5.470 ~ 5.725GHz(Japan)	-	5.150 ~ 5.350 GHz, 5.470 ~ 5.725GHz, 5.725 ~ 5.850 GHz (US & Canada) 5.150 ~ 5.350 GHz, 5.470 ~ 5.725GHz, 5.725 ~ 5.875 GHz (Europe) 5.150 ~ 5.250 GHz, 5.250 ~ 5.350GHz, 5.470 ~ 5.725GHz(Japan)
Cellular Specification			
Cellular	-	LTE, HSPA+, GSM/GPRS/EDGE	LTE, HSPA+, GSM/GPRS/EDGE
Carrier	-	AT&T (APR-4000NA) Verizon (APR-4000NV)	AT&T (APR-4100NA) Verizon (APR-4100NV)
Download Rate	-	100 Mbps	100 Mbps
Upload Rate	-	50 Mbps	50 Mbps
Frequency Band - LTE	-	AT&T: 2100(B10, AWS(B4), 700(B17) Verizon: 700(B13)	AT&T: 2100(B10, AWS(B4), 700(B17) Verizon: 700(B13)
Frequency Band - GSM/GPRS/EDGE	-	Quad-Band	Quad-Band
Power Requirements			
Protection	Ground Screw Designed	Ground Screw Designed	Ground Screw Designed
Power Input	12 ~ 48VDC in 6-Pin Terminal Block	12 ~ 48VDC in 6-Pin Terminal Block	12 ~ 48VDC in 6-Pin Terminal Block
Power Consumption	10W	10W	10W
Radio Power	100mW *2	-	100mW *2
Mechanical Characteristics			
Housing	Metal, IP30 Protection	Metal, IP30 Protection	Metal, IP30 Protection
Dimensions	46 x 155 x 115 mm	46 x 155 x 115 mm	46 x 155 x 115 mm
Weight	1.7 lbs.	1.7 lbs.	1.7 lbs.
Mounting	DIN-Rail & Wall Mounting	DIN-Rail & Wall Mounting	DIN-Rail & Wall Mounting
Environmental Limits			
Operating Temperature	STD: -10 to 60C EOT: -35 to 70C	STD: -10 to 60C EOT: -35 to 70C	STD: -10 to 60C EOT: -35 to 70C
Storage Temperature	-40 to 90C	-40 to 90C	-40 to 90C
Ambient Relative Humidity	5 to 95%, (Non-Condensing)	5 to 95%, (Non-Condensing)	5 to 95%, (Non-Condensing)
Regulatory Approvals			
Certifications	FCC, RoHS	FCC, RoHS	FCC, RoHS
Reliability			
Warranty	5 Years	5 Years	5 Years

Ordering Information - Industrial Wireless

Name	Description
APN Series - Industrial Wireless AP/Bridge/Client	
APN-210N	Industrial 802.11b/g/n Wireless (Wi-Fi) LAN Access Point/Bridge/Repeater
APN-210N-T	Industrial 802.11b/g/n Wireless (Wi-Fi) LAN Access Point/Bridge/Repeater, EOT: -35 to 75C
APN-310N	Industrial 802.11a/b/g/n WiFi Access Point/Client/Bridge/Repeater
APN-310N-T	Industrial 802.11a/b/g/n WiFi Access Point/Client/Bridge/Repeater, EOT: -30 to 70C
APN-320N	Industrial Dual Radio 802.11a/b/g/n WiFi Access Point/Client/Bridge/Repeater
APN-320N-T	Industrial Dual Radio 802.11a/b/g/n WiFi Access Point/Client/Bridge/Repeater, EOT: -35 to 70C
APX Series - Outdoor IP67 Industrial Wireless AP/Bridge/Client	
APX-110N5	Outdoor IP67 IEEE 802.11a/n Wireless AP/Client/Bridge, w/Built-in 19dBi@5GHz Antenna
APX-120N5	Outdoor IP67 IEEE 802.11a/n Wireless Bridge (Pre-Configured Pair of Units) w/Built-in 19dBi@5GHz Antenna
APX-3200	Industrial High-Power 802.11b/g/n Outdoor AP/Bridge/Client, IP67, EOT: -20C to 70C
APX-5200	Industrial High-Power 802.11b/g/n Outdoor AP/Bridge/Client w/ Dual GigE LAN Ports, 2.4GHz, IP67, EOT: -20C to 70C
APX-5500	Industrial High-Power 802.11a/n Outdoor AP/Bridge/Client w/ Dual GigE LAN Ports, 5GHz, IP67, EOT: -20C to 70C
APX-5700	Industrial High-Power 802.11a/b/g/n Outdoor AP/Bridge/Client w/ Dual GigE LAN Ports, Dual Radio 2.4GHz + 5GHz, IP67, EOT: -20C to 70C
APR Series - Industrial Wireless Router & LTE Cellular Modem	
APR-3100N-T	Industrial 802.11b/g AP/VPN/Router, EOT: -35C to 75C
APR-4000A	Industrial VPN/Router w/ 4G LTE AT&T Cellular Modem Support
APR-4000A-T	Industrial VPN/Router w/ 4G LTE AT&T Cellular Modem Support; EOT: -35 to 70C
APR-4000V	Industrial VPN/Router w/ 4G LTE Verizon Cellular Modem Support
APR-4000V-T	Industrial VPN/Router w/ 4G LTE Verizon Cellular Modem Support; EOT: -35 to 70C
APR-4000NA	Industrial 802.11a/b/g/n Wireless AP/VPN/Router w/ 4G LTE AT&T Cellular Modem Support
APR-4100NA-T	Industrial 802.11a/b/g/n Wireless AP/VPN/Router w/ 4G LTE AT&T Cellular Modem Support; EOT: -35 to 70C
APR-4100NV	Industrial 802.11a/b/g/n Wireless AP/VPN/Router w/ 4G LTE Verizon Cellular Modem Support
APR-4100NV-T	Industrial 802.11a/b/g/n Wireless AP/VPN/Router w/ 4G LTE Verizon Cellular Modem Support; EOT: -35 to 70C



▼ **Industrial Serial Connectivity**

Industrial Serial-to-Ethernet Device Servers



Model Names	STE-501C	STE-502C	STE-601C	STE-604C
Specifications				
Type	1-Port	2-Port	1-Port	4-Port
Ethernet Interface				
Ports	1 * 10/100Tx, Auto MDI/MDIX	1 * 10/100Tx, Auto MDI/MDIX	1 * 10/100Tx, Auto MDI/MDIX	2 * 10/100Tx, Auto MDI/MDIX
Compliance	IEEE 802.3, 802.3u	IEEE 802.3, 802.3u	IEEE 802.3, 802.3u	IEEE 802.3, 802.3u
Network Protocol	TCP/IP,UDP,HTTP,SNMP,ARP, Telnet, ICMP, BOOTP, DHCP	TCP/IP,UDP,HTTP,SNMP,ARP, Telnet, ICMP, BOOTP, DHCP	TCP/IP,UDP,HTTP,SNMP,ARP, Telnet, ICMP, BOOTP, DHCP	ICMP,IP,TCP,UDP,DHCP,BOOTP, ARP/RARP,DNS,SNMP MIB II, HTTPS, SSH
Serial Interface				
Ports	1 * RS232/422/485 (DB9 Male)	2 * RS232/422/485 (DB9 Male)	1*RS232/422/485 (DB9M / TB)	4 * RS232/422/485 (DB9 Male)
Baud Rate	1200 bps to 230.4 Kbps	1200 bps to 230.4 Kbps	1200 bps to 230.4 Kbps	110 bps to 460.8 Kbps
Serial Console Port	-	-	-	-
Isolation Protection	-	-	-	-
Software				
Operation Mode	Virtual COM, TCP/UDP, Tunnel	Virtual COM, TCP/UDP, Tunnel	Virtual COM, TCP/UDP, Tunnel	Virtual COM, TCP/UDP, Tunnel
Configuration Options	Web Console, Telnet, Windows Utility Software	Web Console, Telnet, Windows Utility Software	Web Console, Telnet, Windows Utility Software	Web Console, Serial Console, Windows Utility Software
DUAL Ethernet	-	-	-	Switching Mode
OS Support	MS Windows, Linux	MS Windows, Linux	MS Windows, Linux	MS Windows
Power Characteristics				
Power Input	9-30 VDC (Terminal Block); 5V (DC Jack)	9-30 VDC (Terminal Block); 5V (DC Jack)	9-30 VDC (Terminal Block)	12~48VDC (Terminal Block)
Power Consumption (Max)	3W	3W	3W	7W
Hardware Characteristics				
LCM Display	-	-	-	-
LCM Buttons	-	-	-	-
Housing	Metal, IP40 Protection	Metal, IP40 Protection	Metal, IP50 Protection	Metal, IP30 Protection
Dimensions	65 x 80 x 28 mm	53.4x145.7x119.9 mm	45 x 91 x 76 mm	52 x 106 x 144 mm
Weight	0.4 lbs.	0.5 lbs.	0.5 lbs.	1.55 lbs.
Installation	DIN-Rail or Wall Mounting	DIN-Rail or Wall Mounting	DIN-Rail or Wall Mounting	DIN-Rail or Wall Mounting
Environmental Limits				
Operating Temperature	0 to 60C	0 to 60C	-20 to 70C	-30 to 70C
Storage Temperature	-20 to 80C	-20 to 80C	-20 to 85C	-40 to 85C
Humidity	20 to 90% Non-Condensing	20 to 90% Non-Condensing	20 to 90% Non-Condensing	5 to 90% Non-Condensing
Regulatory Approvals				
Certifications	CE, FCC	CE, FCC	CE, FCC	CE, FCC
RoHS	Yes	Yes	Yes	Yes
Warranty	5 Years	5 Years	5 Years	5 Years



Industrial Serial-to-Ethernet Device Servers



Model Names	STE-6104C-T	STE-708 Series	STE-516C	STE-716 Series
Specifications				
Type	4-Port	8-Port	16-Port	16-Port
Ethernet Interface				
Ports	2 * 10/100Tx, Auto MDI/MDIX	2 * 10/100Tx, Auto MDI/MDIX	2 * 10/100Tx, Auto MDI/MDIX	2 * 10/100Tx, Auto MDI/MDIX
Compliance	IEEE 802.3, 802.3u	IEEE 802.3, 802.3u	IEEE 802.3, 802.3u	IEEE 802.3, 802.3u
Network Protocol	TCP/IP, UDP, HTTP, SNMP, ARP, Telnet, ICMP, BOOTP, DHCP	IPv4,ICMP,TCP,UDP,DHCP Client,SNMP,HTTP,Telnet, RFC2217,NTP,DNS,SMTP,Syslog	TCP, UDP, Telnet, ICMP, DHCP, TFTP, HTTP, SNMP 1/2/3, SSH, SSL	IPv4,ICMP,TCP,UDP,DHCP Client,SNMP,HTTP,Telnet, RFC2217,NTP,DNS,SMTP,Syslog
Serial Interface				
Ports	4 * RS232/422/485 (DB9 Male)	8 * RS232/422/485 (RJ45)	16 * RS232/422/485 (RJ45)	16 * RS232/422/485 (RJ45)
Baud Rate	300bps to 921.6Kbps	50bps to 921.6Kbps	Up to 921.6Kbps	50bps to 921.6Kbps
Serial Console Port	1 * RJ45 Port	1 * DB9M	1 * DB9M	1 * DB9M
Isolation Protection	-	2.5KV (For -Bi Model Only)	-	2.5KV (For -Bi Model Only)
Software				
Operation Mode	Virtual COM, TCP/UDP, Tunnel	Virtual COM, TCP/UDP, Tunnel	COM Port Redirector, TCP, Pair	Virtual COM, TCP/UDP, Tunnel
Configuration Options	Web Console, Telnet, Windows Utility Software	Web Console, Telnet, Windows Utility Software	Web Console, Telnet, Windows Utility Software	Web Console, Telnet, Windows Utility Software
DUAL Ethernet	Network Redundant: DUAL LAN Data Redundant	Daisy Chain Ethernet; Network Redundancy; Data Redundancy Network.	Switching Mode	Daisy Chain Ethernet; Network Redundancy; Data Redundancy Network.
OS Support	MS Windows, Linux	MS Windows, Linux	MS Windows	MS Windows, Linux
Power Characteristics				
Power Input	9~48VDC (Terminal Block)	100~240VAC	100~240VAC	100~240VAC
Power Consumption (Max)	5.85W	0.21A @100 VAC	2.5W	0.21A @100 VAC
Hardware Characteristics				
LCM Display	-	Display Device Information	TX, RX, Power, LAN, Ready	Display Device Information
LCM Buttons	-	Front End Configuration	-	Front End Configuration
Housing	Metal, IP50 Protection	Metal, IP30 Protection	Metal, IP30 Protection	Metal, IP30 Protection
Dimensions	53.4 x 145.7 x 119.9 mm	436 x 43.5 x 200 mm	243 x 193 x 44 mm	436 x 43.5 x 200 mm
Weight	2.05 lbs.	6.0 lbs.	5.5 lbs.	6.5 lbs.
Installation	DIN-Rail or Wall Mounting	1U 19" Rackmount	1U 19" Rackmount	1U 19" Rackmount
Environmental Limits				
Operating Temperature	-40 to 80C	-20 to 70C	0 to 50C	-20 to 70C
Storage Temperature	-40 to 85C	-40 to 85C	-40 to 85C	-40 to 85C
Humidity	5 to 90%, (Non-Condensing)	5 to 90%, (Non-Condensing)	5 to 90%, (Non-Condensing)	5 to 90%, (Non-Condensing)
Regulatory Approvals				
Certifications	CE, FCC	CE, FCC	CE, FCC	CE, FCC
RoHS	Yes	Yes	Yes	Yes
Warranty	5 Years	5 Years	5 Years	5 Years

Industrial Serial-to-Fieldbus Gateway



Model Names	STM-501C	STM-614C Series
Specifications		
Type	Modbus ASCII/RTU/485 to ModbusTCP	Modbus ASCII/RTU/485 to ModbusTCP
Ethernet Interface		
Ports	1 * 10/100Mbps RJ45, Auto MDI/MDIX	2 * 10/100Mbps RJ45, Auto MDI/MDIX
Compliance	IEEE 802.3 10BASE-T / IEEE 802.3u 100BASE-TX	IEEE 802.3 10BASE-T / IEEE 802.3u 100BASE-TX
Network Protocol	TCP, IP, ARP, DHCP, Telnet, HTTP, UDP, ICMP	ICMP, Modbus TCP/ASCII/RTU, HTTP, ARP
Serial Interface		
Ports	1 * RS232/422/485 DB9 Male	4 * RS232/422/485 DB9 Male (Software Selectable)
Baud Rate	110 bps to 230.4 Kbps	921.6Kbps, Supports User Defined Baud Rate
Serial Console Port	-	1 * RJ45 on Front Panel
Isolation Protection	-	1.5KV
Software		
Operation Mode	Virtual COM, TCP/UDP	Virtual COM, TCP/UDP
Modbus Parameters	Up to 1 TCP Master, 8 TCP Slaves	Up to 16 TCP Masters, 32 TCP Slaves
Configuration Options	Serial Console, Telnet, Web and Windows-Based Utility	Serial Console, Telnet, Web and Windows-Based Utility
Watch Dog Timer	60-Second Software Auto-Reset(Customization) ; 1 Second Real-Time Clock Built-In	60-Second Software Auto-Reset(Customization) ; 1 Second Real-Time Clock Built-In
Power Characteristics		
Power Input	7 to 30VDC (2-Pin Terminal Block or Power Jack)	9 to 48VDC (7-Pin Terminal Block)
Power Consumption (Max)	3.5W	5.58W
Hardware Characteristics		
Housing	Metal, IP30 Protection	Metal, IP50 Protection
Dimensions	85 x 115 x 23 mm	53.4x145.7x119.9 mm
Weight	0.4 lbs	2.05 lbs
Installation	DIN-Rail or Wall Mounting	DIN-Rail or Wall Mounting
Environmental Limits		
Operating Temperature	0 to 50C	-40 to 80C
Storage Temperature	-20 to 60C	-40 to 85C
Ambient Relative Humidity	0 to 90%, (Non-Condensing)	5 to 95%, (Non-Condensing)
Regulatory Approvals		
Certifications	CE, FCC	CE, FCC
RoHS	Yes	Yes
Warranty	5 Years	5 Years



Industrial Serial-to-Wireless Device Servers



Model Names	STW-600C Series	STW-610C Series	STW-620C Series
Specifications			
Type	IEEE 802.11b/g (2.4GHz)	IEEE 802.11b/g/n (2.4GHz)	IEEE 802.11a/b/g/n (2.4/5GHz)
Radio Specification			
Operating Frequency	2.4GHz	2.4GHz	2.4 / 5 GHz
Data Rate	Up to 54Mbps	Up to 150Mbps	Up to 300Mbps
Ethernet Interface			
Technology	IEEE 802.3, 802.3u	IEEE 802.3, 802.3u	IEEE 802.3, 802.3u
Port	1*10/100Tx - RJ45 Port	1*10/100Tx - RJ45 Port	1*10/100Tx - RJ45 Port
Wireless Interface			
Standard Compliance	IEEE 802.11b/g	IEEE 802.11b/g/n	IEEE 802.11a/b/g/n
Tx / Rx	1T1R (1 x 1 w/ MCS 0-7)	1T1R (1 x 1 w/ MCS 0-7)	1T1R (1 x 1 w/ MCS 0-7)
Serial Interface			
Connector	1-Port RS232/422/485 w/DB9 or TB5; Software Selectable (STW-601C) 2-Port RS232/422/485 w/DB9; Software Selectable (STW-602C)	1-Port RS232/422/485 w/DB9 or TB5; Software Selectable (STW-611C) 2-Port RS232/422/485 w/DB9; Software Selectable (STW-612C)	1-Port RS232/422/485 w/DB9 or TB5; Software Selectable (STW-621C) 2-Port RS232/422/485 w/DB9; Software Selectable (STW-622C)
Baud Rate	Up to 921.6 Kbps	Up to 921.6 Kbps	Up to 921.6 Kbps
Flow Control	None, Xon / Xoff, RTS/CTS	None, Xon / Xoff, RTS/CTS	None, Xon / Xoff, RTS/CTS
Software			
Protocol	ICMP, TCP/IP, UDP, DHCP Client, Telnet, DNS, SNMP, HTTP, SMTP, SNTp	IPv4, ICMP, TCP, UDP, DHCP Client, SNMP, SMTP, HTTP, DNS, NTP, RADIUS, RFC2217, WPS, Syslog	IPv4, ICMP, TCP, UDP, DHCP Client, SNMP, SMTP, HTTP, DNS, NTP, RADIUS, RFC2217, WPS, Syslog
Wireless Security	WEP, WPA, WPA2, TKIP, AES	WEP, WPA, WPA2, TKIP, AES, 802.1x	WEP, WPA, WPA2, TKIP, AES, 802.1x
Configuration Options	Serial Manager, Web UI, Telnet	Serial Manager, Web UI	Serial Manager, Web UI
Operation Mode	Virtual COM/Reverse Telnet; TCP/UDP; Tunneling.	Virtual COM/Reverse Telnet; TCP/UDP; Tunneling.	Virtual COM/Reverse Telnet; TCP/UDP; Tunneling.
OS Support	Windows	Windows, Linux	Windows, Linux
Power Characteristics			
Input Voltage	9 to 30VDC	9 to 48VDC	9 to 48VDC
Power Consumption	~4.50W	~5.85W	~5.85W
Hardware Characteristics			
Housing	Metal, IP50 Protection	Metal, IP50 Protection	Metal, IP50 Protection
Dimensions	47 mm x 110 mm x 90mm	47 mm x 110 mm x 90mm	47 mm x 110 mm x 90mm
Weight	1.1 lbs.	1.1 lbs.	1.1 lbs.
Installation	Din-Rail, Wall Mounting (Optional)	Din-Rail, Wall Mounting (Optional)	Din-Rail, Wall Mounting (Optional)
Environmental Limits			
Operating Temperature	-20 to 70C	-10 to 60C	-10 to 60C
Storage Temperature	-20 to 85C	-40 to 85C	-40 to 85C
Ambient Relative Humidity	5 to 95%, (Non-Condensing)	5 to 95%, (Non-Condensing)	5 to 95%, (Non-Condensing)
Standard and Certifications			
Certification	CE, FCC	CE, FCC, UL	CE, FCC, UL
Shock / Freefall / Vibration	IEC 60068-2-27 / IEC 60068-2-32 / IEC 60068-2-64	IEC 60068-2-27 / IEC 60068-2-32 / IEC 60068-2-64	IEC 60068-2-27 / IEC 60068-2-32 / IEC 60068-2-64
RoHS II	Yes	Yes	Yes
Warranty	5 Years	5 Years	5 Years

Industrial Serial-to-Fiber Converters



Model Names	STF-300C Series	STF-401C Series	STF-500C Series
Specifications			
Type	Entry Level	Industrial Level	Advanced Level
Optical Fiber Interface			
Fiber Connector	SC / ST or WDM	SC or ST	SC or ST
Cable Requirement	Multi-Mode: 50/125um, 62.5/125um / Single-Mode: 9/125um	Multi-Mode: 50/125um, 62.5/125um / Single-Mode: 9/125um	Multi-Mode: 50/125um, 62.5/125um / Single-Mode: 9/125um
Fiber Port	1*100Fx	1*100Fx	STF-501C: 1*100Fx / STF-502C: 2*100Fx
Transmission Distance	Multi-Mode: 2Km / Single-Mode: 30~80Km	Multi-Mode: 2Km / Single-Mode: 80Km	Multi-Mode: 2Km / Single-Mode: 80Km
Wavelength	850 / 1310nm	1310nm	Multi-Mode in 1310nm / Single-Mode in 1310nm/1550nm
Tx Power	Multi-Mode: 11dBm / Single-Mode: 12~35dBm	Multi-Mode: -14~-23.5dBm@50/125um / -14~-20dBm@62.5/125um Single-Mode: -8~-1 dBm	Multi-Mode: -14 ~ -20 dBm / Single-Mode: -5 ~ -15 dBm
Rx Sensitivity	Multi-Mode <-31 dBm: Single-Mode <-32 dBm	Multi-Mode <-31 dBm: Single-Mode <-32 dBm	Multi-Mode: - 31 dBm / Single-Mode: - 35 dBm
Serial Interface			
Serial Port Connector	RS232: + RTS/CTS 5-Wire; RS232 3-Wire; RS485 2-Wire; RS485 4-Wire	RS232:- TxD,RxD,GND (DCD,DTR,DSR Internal Short;CTS,RTS Internal Short); RS422-4w - TxD+, TxD-, RxD+, RxD-, GND; RS485-2w - Data+, Data-,GND	RS232 (DB9 Female); RS422-4w (Terminal Block); RS485-2w, or 4w (Terminal Block)
Baud Rate	RS232: Up to 256Kbps / RS485: Up to 1024Kbps	300bps ~ 921kbps	50 Up to 1024Kbps (RS422/485), 230.4Kbps (RS232-CH1), 115.2Kbps (RS232-CH2)
Serial Isolation	-	-	2.5KV
ESD Protection	-	15KV	8KV
Pull High/Low	Dip Switch Adjustment	Dip Switch Adjustment	Selected by 10 Position Rotary Switches
Power Requirements			
Power Input	12 VDC	9 ~ 48VDC	12, 24, 48 VDC (9.6 ~ 58VDC absolute)
Power Consumption	5W	2.52W @0.28A max, 9 VDC	5W
Power Connector	DC Power Barrel Jack	Removable 3-Pin Screw Terminal Block	Dual Power Inputs w/ Alarm Relay Contact
Power Protection	-	Reverse Polarity Protection	Reverse Polarity Protection
Mechanical Characteristics			
Housing	Metal, IP30 Protection	Metal, IP50 Protection	Metal, IP30 Protection
Dimensions	85.6 x 122.6 x 20.0 mm	34.4 x 91.2 x 120mm	106 x 39 x 142mm
Weight	0.66 lbs.	1.5 lbs.	1.6 lbs.
Mounting	Standalone	DIN-Rail Mounting, Wall Mounting (optional)	DIN-Rail Mounting, and Wall Mounting Kits Included
Environmental Limits			
Operating Temperature	0 to 50C	-40 to 70C	STD: 0 to 60C EOT: -40 to 75C
Storage Temperature	0 to 70C	-40 to 85C	-40 to 85C
Ambient Relative Humidity	10% to 90%, (Non-Condensing)	5 to 95%, (Non-Condensing)	5 to 95%, (Non-Condensing)
Regulatory Approvals			
EMI	-	FCC Part15, CISPR (EN55022) Class A	FCC Part15, CISPR (EN55022) Class A
EMS	-	EN61000-4-2, 4-3, 4-4, 4-5, 4-6	EN61000-4-2, 4-3, 4-4, 4-5, 4-6
Free Fall	-	MIL-STD-810F Method 516.5	IEC-60068-2-32
Shock	-	MIL-STD-810F Method 516.5	IEC-60068-2-6
Vibration	-	MIL-STD-810F Method 514.5 C-1 & C-2	IEC-60068-2-27
Green	RoHS Compliant	RoHS Compliant	RoHS Compliant
MTBF	257,063 Hours	216,388 Hours	797,101 Hours
Certifications	FCC, CE	FCC, CE	FCC, CE, UL
Warranty	5 Years	5 Years	5 Years

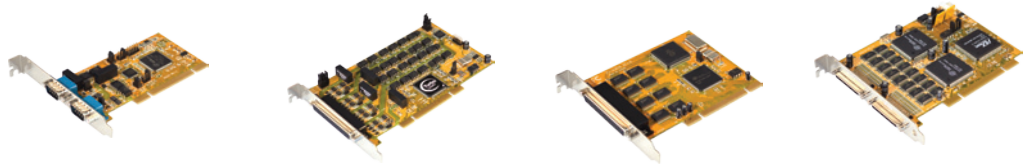


Serial to Serial Media Converter



Model Names	STS-1915 Series	STS-1920SI	STS-1921SI	SED-1010S
Specifications				
Type	Serial to Serial	Serial Repeater	Serial Isolator	Serial over CAT5 Extender
Hardware Specification				
Connector	1 x DB9 Female; 1 x 5-Pin Terminal Block	1 x DB9 Male; 1 X DB9 Female	1 x DB9 Male; 1 X DB9 Female	1 x RJ45; 1 X DB9 Female
Ports	1 x RS422/485	1 x RS232	1 x RS232	1 x RS232
LED Indicators	-	-	-	Power, TxD, RxD
Parameters				
Baud Rate	Auto Baud Rate Detection	Up to 921.6Kbps	Up to 921.6Kbps	Up to 115.2Kbps@1.2Km; 921.6Kbps@100M
Signals	RS-232: TxD,RxD,RTS,CTS,DTR,DSR ,DCD,GND; RS-422: TxD+,TxD-,RxD+,RxD-,GND; RS-485 (2-wire): Data+,Data-,GND; RS-485 (4-wire): TxD+,TxD-,RxD+,RxD-,GND.	"DCE: TxD, RxD, GND DTE: TxD, RxD, GND"	DCE: TxD, RxD, RTS, CTS, DTR, DSR, DCD, RI, and GND DTE: TxD, RxD, RTS, CTS, DTR, DSR, DCD, RI, and GND	TxD, RxD, CTS, RTS
Data Bits	-	-	-	5, 6, 7, 8
Parity	-	-	-	None, Even, Odd, Space, Mark
Stop Bits	-	-	-	1, 1.5, 2
Mode	-	-	-	Asynchronous Serial Communication
Power Requirements				
Power Input	5V/30mA (RS232 Line Powered)	5 VDC External Power (AC Adapter or USB Port)	5 VDC External Power (AC Adapter or USB Port)	10 ~ 30 VDC
Power Consumption	-	-	-	15mA @ 24 VDC
Protection				
Surge Protection	500W	500W	15KV ESD Protection	15KV ESD Protection
Isolation Protection	2,500 Vrms	2,500 Vrms	2,500Vrms	-
Environmental Limits				
Operating Temperature	0 to 57C	0 to 60C	0 to 60C	-30 to 75C
Storage Temperature	-20 to 85C	-20 to 85C	-20 to 85C	-40 to 85C
Humidity	5 to 95%, (Non-Condensing)	5 to 95%, (Non-Condensing)	5 to 95%, (Non-Condensing)	5 to 95%, (Non-Condensing)
Warranty	5 Years	5 Years	5 Years	5 Years

Multiport Serial Cards



Model Names	MSC-102 Series	MSC-104 Series	MSC-108 Series	MSC-116A
Specifications				
Type	Universal PCI Bus	Universal PCI Bus	Universal PCI Bus	Universal PCI Bus
Hardware Specification				
Serial Interface	MSC-102A: 2*RS232 MSC-102B: 2*RS232/422/485 MSC-102C: 2*RS232/422/485	MSC-104A: 4*RS232 MSC-104B: 4*RS422/485	MSC-108A: 8*RS232 MSC-108B: 8*RS422/485	MSC-116A: 16*RS232
Serial Port	2*DB9M Built-In; or via Cable	4*DB9M via Cable	8*DB9M via Cable	16*DB9M via Cable
Host Controller	16C550/16C950 UART Compatible	16C550/16C950 UART Compatible	16C550/16C950 UART Compatible	16C550/16C950 UART Compatible
Parameters				
FIFO	128 Byte FIFO	128 Byte FIFO	128 Byte FIFO	16 Byte FIFO
Baud Rate	Up to 921.6Kbps	Up to 921.6Kbps	Up to 921.6Kbps	Up to 921.6Kbps
Data Bits	5, 6, 7, 8, 9	5, 6, 7, 8, 9	5, 6, 7, 8, 9	5, 6, 7, 8, 9
Parity	None,Odd,Even,Mark	None,Odd,Even,Mark	None,Odd,Even,Mark	None,Odd,Even,Mark
Data Signals	CTS, RTS / DSR, DTR	CTS, RTS / DSR, DTR	CTS, RTS / DSR, DTR	CTS, RTS / DSR, DTR
Flow Control	Xon / Xoff	Xon / Xoff	Xon / Xoff	Xon / Xoff
OS Support	Windows, Linux	Windows, Linux	Windows, Linux	Windows, Linux
Power Output				
Power Over Serial	5 /12 VDC over DB9	5 /12 VDC over DB9	5 /12 VDC over DB9	5 /12 VDC over DB9
Protection				
Surge Protection	15KV ESD Protection (SI Model Only)	15KV ESD Protection (SI Model Only)	-	15KV ESD Protection
Isolation Protection	2,500Vrms (SI Model Only)	2,500Vrms (SI Model Only)	-	-
Environmental Limits				
Operating Temperature	0 to 55C	0 to 55C	0 to 55C	0 to 55C
Storage Temperature	-40 to 75C	-40 to 75C	-40 to 75C	-40 to 75C
Humidity	5 to 95%, (Non-Condensing)	5 to 95%, (Non-Condensing)	5 to 95%, (Non-Condensing)	5 to 95%, (Non-Condensing)
Approvals	CE, FCC, RoHS	CE, FCC, RoHS	CE, FCC, RoHS	CE, FCC, RoHS
Warranty	5 Years	5 Years	5 Years	5 Years

Multiport Serial Cards



Model Names	MSC-201 Series	MSC-202 Series	MSC-204 Series	MSC-208 Series	MSC-216A
Specifications					
Type	PCI Express	PCI Express	PCI Express	PCI Express	PCI Express
Hardware Specification					
Serial Interface	MSC-201B: 1*RS422/485	MSC-202A: 2*RS232 MSC-202B: 2*RS422/485	MSC-204A: 4*RS232 MSC-204B: 4*RS422/485	MSC-208A: 8*RS232 MSC-208C: 8*RS232/422/485	MSC-216A: 16*RS232
Serial Port	1*DB9M Built-In	2*DB9M Built-In; or via Cable	4*DB9M via Cable	8*DB9M via Cable; 8*7pin Terminal Block, Connection Box	16*DB9M via Cable
Host Controller	16C550/16C950 UART Compatible	16C550/16C950 UART Compatible	16C550/16C950 UART Compatible	16C550/16C950 UART Compatible	16C550/16C950 UART Compatible
Parameters					
FIFO	128 Byte FIFO	128 Byte FIFO	128 Byte FIFO	128 Byte FIFO	128 Byte FIFO
Baud Rate	Up to 921.6Kbps	Up to 921.6Kbps	Up to 921.6Kbps	Up to 921.6Kbps	Up to 921.6Kbps
Data Bits	5, 6, 7, 8, 9	5, 6, 7, 8, 9	5, 6, 7, 8, 9	5, 6, 7, 8, 9	5, 6, 7, 8, 9
Parity	None,Odd,Even,Mark	None,Odd,Even,Mark	None,Odd,Even,Mark	None,Odd,Even,Mark	None,Odd,Even,Mark
Data Signals	CTS, RTS / DSR, DTR	CTS, RTS / DSR, DTR	CTS, RTS / DSR, DTR	CTS, RTS / DSR, DTR	CTS, RTS / DSR, DTR
Flow Control	Xon / Xoff	Xon / Xoff	Xon / Xoff	Xon / Xoff	Xon / Xoff
OS Support	Windows, Linux	Windows, Linux	Windows, Linux	Windows, Linux	Windows, Linux
Power Output					
Power Over Serial	5 /12 VDC over DB9	5 /12 VDC over DB9	5 /12 VDC over DB9	5 /12 VDC over DB9	5 /12 VDC over DB9
Protection					
Surge Protection	15KV ESD Protection (SI Model Only)	15KV ESD Protection (SI Model Only)	15KV ESD Protection (SI Model Only)	15KV ESD Protection (SI Model Only)	-
Isolation Protection	2,500Vrms (SI Model Only)	2,500Vrms (SI Model Only)	2,500Vrms (SI Model Only)	2,500Vrms (SI Model Only)	-
Environmental Limits					
Operating Temperature	0 to 55C	0 to 55C	0 to 55C	0 to 55C	0 to 55C
Storage Temperature	-40 to 75C	-40 to 75C	-40 to 75C	-40 to 75C	-40 to 75C
Humidity	5 to 95%, (Non-Condensing)	5 to 95%, (Non-Condensing)	5 to 95%, (Non-Condensing)	5 to 95%, (Non-Condensing)	5 to 95%, (Non-Condensing)
Approvals	CE, FCC, RoHS	CE, FCC, RoHS	CE, FCC, RoHS	CE, FCC, RoHS	CE, FCC, RoHS
Warranty	5 Years	5 Years	5 Years	5 Years	5 Years

Industrial USB to Serial Converter



Model Names	UTS-1110A	UTS-1458B	UTS-1461A-SI	UTS-401BK-SI
Specifications				
Type	USB to RS232	USB to RS422/485	USB to RS232	USB to RS422/485
Hardware Specification				
USB Port	USB 1.1/2.0 Type A	USB 1.1/2.0 Type A	USB 1.1/2.0 Type A	USB 1.1/2.0 Type B
Serial Port	1*RS32 (DB9)	1*RS422/485 (DB9)	1*RS32 (DB9)	1*RS422/485 (DB9 or 5pin TB)
LED Indicators	Tx / Rx Activity	-	-	-
DIP Switch	-	RS422/485 Setting	-	RS422/485 Setting
Cable Locking Feature	-	-	-	Screw Lock Mechanism
Parameters				
Baud Rate	300bps ~ 921.6Kbps	300bps ~ 921.6Kbps	300bps ~ 921.6Kbps	300bps ~ 921.6Kbps
Data Bits	7, 8	7, 8	7, 8	7, 8
Parity	None,Odd,Even,Mark,Space	None,Odd,Even,Mark	None,Odd,Even,Mark,Space	None,Odd,Even,Mark
Stop Bits	1, 2	1, 2	1, 2	1, 2
OS Support	Windows, Linux, MAC OS	Windows, Linux	Windows, Linux	Windows, Linux
Power Requirements				
Power Input	Power from USB	Power from USB	Power from USB	Power from USB
Power Consumption	-	-	-	15mA @ 24 VDC
Protection				
Surge Protection	-	-	15KV ESD Protection	15KV ESD Protection
Isolation Protection	-	-	2,500Vrms	2,500Vrms
Mechanical Characteristics				
Housing	Plastic	Plastic	Plastic	Metal
Dimensions	60.2 x 33.5 x 16.0 mm	41.5 x 22.0 x 45.0 mm	41.5 x 22.0 x 45.0 mm	92.8 x 54.0 x 23.1 mm
Weight	0.2 lbs.	0.2 lbs.	0.2 lbs.	0.65 lbs.
Mounting	Cable, Standalone	Cable, Standalone	Cable, Standalone	DIN-Rail or Wall Mounting
Environmental Limits				
Operating Temperature	0 to 57C	0 to 60C	0 to 60C	0 to 55C
Storage Temperature	-20 to 85C	-20 to 85C	-20 to 85C	-20 to 85C
Humidity	5 to 95%, (Non-Condensing)	5 to 95%, (Non-Condensing)	5 to 95%, (Non-Condensing)	5 to 95%, (Non-Condensing)
Approvals	CE, FCC, RoHS	CE, FCC, RoHS	CE, FCC, RoHS	CE, FCC, RoHS
Warranty	5 Years	5 Years	5 Years	5 Years



Industrial USB-to-Serial Converter



Model Names	UTS-402C Series	UTS-404A Series	UTS-408 Series	UTS-416AK
Specifications				
Type	USB to RS232/422/485	USB to RS232	USB to RS232 or 3-in-1	USB to R232
Hardware Specification				
USB Port	USB 1.1/2.0 Type B	USB 1.1/2.0 Type B	USB 1.1/2.0 Type B	USB 1.1/2.0 Type B
Serial Port	2*RS232/422/485 (DB9)	4*RS32 (DB9)	8*RS232/422/485 (DB9)	16*RS32 (DB9)
LED Indicators	Tx / Rx Activity	-	-	-
DIP Switch	RS422/485 Setting	-	RS422/485 Setting	-
Cable Locking Feature	Screw Lock Mechanism	Screw Lock Mechanism	Screw Lock Mechanism	Screw Lock Mechanism
Parameters				
Baud Rate	300bps ~ 921.6Kbps	300bps ~ 921.6Kbps	300bps ~ 921.6Kbps	300bps ~ 921.6Kbps
Data Bits	7, 8	7, 8	7, 8	7, 8
Parity	None,Odd,Even,Mark,Space	None,Odd,Even,Mark,Space	None,Odd,Even,Mark,Space	None,Odd,Even,Mark,Space
Stop Bits	1, 2	1, 2	1, 2	1, 2
OS Support	Windows, Linux	Windows, Linux	Windows, Linux	Windows, Linux
Power Requirements				
Power Input	Power from USB	Power from USB; or External +5 VDC Power Jack	Power from USB; or External +5 VDC Power Jack	Power from USB; or External 12 VDC Power Jack
Power Consumption	-	5VDC, 250mA (Max)	-	-
Protection				
Surge Protection	15KV ESD Protection	15KV ESD Protection (SI Model Only)	15KV ESD Protection (SI Model Only)	-
Isolation Protection	2,500Vrms	2,500Vrms (SI Model Only)	2,500Vrms (SI Model Only)	-
Mechanical Characteristics				
Housing	Metal, IP30 Protection	Metal, IP30 Protection	Metal, IP30 Protection	Metal, IP30 Protection
Dimensions	106.8 x 113 x 24.4 mm	173.5 x 97.2 x 24.3 mm	173.5 x 97.2 x 43.2 mm	336.0 x 68.8 x 43.5 mm
Weight	0.65 lbs.	0.65 lbs.	1.2 lbs.	2.1 lbs.
Mounting	DIN-Rail or Wall Mounting	DIN-Rail or Wall Mounting	DIN-Rail or Wall Mounting	DIN-Rail or Wall Mounting
Environmental Limits				
Operating Temperature	0 to 55C	0 to 55C	0 to 55C	0 to 55C
Storage Temperature	-20 to 85C	-20 to 85C	-20 to 85C	-20 to 85C
Humidity	5 to 95%, (Non-Condensing)	5 to 95%, (Non-Condensing)	5 to 95%, (Non-Condensing)	5 to 95%, (Non-Condensing)
Approvals	CE, FCC, RoHS	CE, FCC, RoHS	CE, FCC, RoHS	CE, FCC, RoHS
Warranty	5 Years	5 Years	5 Years	5 Years

Industrial USB-HUBs



Model Names	USB-HUB4K	USB-HUB4K3	USB-HUB7K	USB-HUB3-7K	UTE-404K
Specifications					
Type	Industrial USB Hub	Industrial USB Hub	Industrial USB Hub	Industrial USB Hub	Industrial USB to Ethernet
Hardware Specification					
USB Type	USB 1.1 or 2.0	USB 1.1, 2.0 or 3.0	USB 1.1 or 2.0	USB 1.1, 2.0 or 3.0	USB 1.1 or 2.0
USB Port	Up: 1 x USB Port (Type-B) Down: 4 x USB Ports (Type-A)	Up: 1 x USB Port (Type-B) Down: 4 x USB Ports (Type-A)	Up: 1 x USB Port (Type-B) Down: 7 x USB Ports (Type-A)	Up: 1 x USB Port (Type-B) Down: 7 x USB Ports (Type-A)	Up: 1 x USB Port (Type-B) Down: 4 x USB Ports (Type-A)
Ethernet Port	-	-	-	-	1*10/100/1000Tx RJ45
USB Supported Speed	480Mbps, 12Mbps, and 1.5Mbps	5Gbps,480Mbps,12Mbps, & 1.5Mbps	480Mbps, 12Mbps, and 1.5Mbps	5Gbps,480Mbps,12Mbps, & 1.5Mbps	480Mbps, 12Mbps, and 1.5Mbps
Packet Protocol	High-Speed or Full-Speed	Super-Speed, High-Speed, Full-Speed, and Low-Speed	High-Speed or Full-Speed	Super-Speed, High-Speed, Full-Speed, and Low-Speed	High-Speed or Full-Speed
LED Indicators	Downstream Port Status LED	Downstream Port Status LED	-	-	Downstream Port Status LED
Cable Locking Feature	Screw Lock Mechanism	Screw Lock Mechanism	Screw Lock Mechanism	Screw Lock Mechanism	Screw Lock Mechanism
OS Support	MS Windows	MS Windows	MS Windows	MS Windows	MS Windows
Power Requirements					
Power Input	Supports 1*DC Jack for External Power Input	1*DC Jack and 1* 2-Pin Terminal Blocks for External Power Input	1 * 2-Pin Terminal Block for External Power Input	1 * 2-Pin Terminal Block for External Power Input	1*DC Jack and 1 * 2-Pin Terminal Block for External Power Input
Power Consumption	Self-Powered and Bus-Powered Mode	Self-Powered and Bus-Powered Mode	Self-Powered and Bus-Powered Mode	Self-Powered and Bus-Powered Mode	7~24VDC Input for Internal Network and USB Bus Power
Mechanical Characteristics					
Housing	Metal, IP30 Protection	Metal, IP30 Protection	Metal, IP30 Protection	Metal, IP30 Protection	Metal, IP30 Protection
Dimensions	152.0 x 59.6 x 23.5 mm	152.0 x 59.6 x 23.5 mm	133.0 x 61.5 x 36.3 mm	133.0 x 61.5 x 36.3 mm	152.0 x 60.1 x 26.3 mm
Weight	0.6 lbs.	0.6 lbs.	0.75 lbs.	0.75 lbs.	0.75 lbs.
Mounting	DIN-Rail or Wall Mounting	DIN-Rail or Wall Mounting	DIN-Rail or Wall Mounting	DIN-Rail or Wall Mounting	DIN-Rail or Wall Mounting
Environmental Limits					
Operating Temperature	-10 to 70C	-10 to 70C	0 to 55C	0 to 55C	0 to 55C
Storage Temperature	-20 to 85C	-20 to 85C	-20 to 85C	-20 to 85C	-20 to 85C
Humidity	5 to 95%, (Non-Condensing)	5 to 95%, (Non-Condensing)	5 to 95%, (Non-Condensing)	5 to 95%, (Non-Condensing)	5 to 95%, (Non-Condensing)
Warranty	5 Years	5 Years	5 Years	5 Years	5 Years

Industrial USB HUBs



Model Names	USB-14010-SI	USB-14112K	USB-6800 Series	USB-68101K
Specifications				
Type	USB Isolation Adapter	Standalone	PCI Express	PCI Express
Hardware Specification				
USB Type	USB 1.1 or 2.0	USB 1.1 or 2.0	USB 1.1 or 2.0	USB 1.1 or 2.0
USB Port	Up: 1 USB Port (Type-B) Down: 1 USB Port (Type-A)	External: 2 USB Ports (Type-A) Internal: 1 * 9-Pin Header USB 2.0 Input	External: 3 USB Ports (Type-A); Internal: 1 * 9-Pin for Front Panel 2*USB	External: 2 USB Ports (Type-A); Internal: 1 * 9-Pin for Front Panel 2*USB
USB Supported Speed	Up to 12Mbps	Up to 480Mbps	Up to 480Mbps	Up to 480Mbps
DIP Switch	USB Speed Setting	-	-	-
Power Source Selector	-	Jumper Setting for USB Bus Power, or AUX Power Connection Selection	Jumper Setting for USB Bus Power, or AUX Power Connection Selection	Jumper Setting for USB Bus Power, or AUX Power Connection Selection
Cable Locking Feature	Screw Lock Mechanism	Screw Lock Mechanism	-	Screw Lock Mechanism
OS Support	-	MS Windows	MS Windows, MAC OS	MS Windows, MAC OS
Power Requirements				
Power Input	Self-Powered and Bus-Powered Mode	Self-Powered and Bus-Powered Mode; 1 * 4-Pin AUX Connector	Self-Powered and Bus-Powered Mode; 1 * 4-Pin AUX Connector	Self-Powered and Bus-Powered Mode
Protection				
Surge Protection	-	-	-	-
Isolation Protection	2,500Vrms	-	-	-
Mechanical Characteristics				
Housing	Plastic	-	-	-
Dimensions	82.7 x 44.5 x 22.0 mm	63.5 x 34.3 mm	94.0 x 68.0 mm	94.0 x 68.0 mm
Mounting	DIN-Rail or Wall Mounting	-	-	-
Environmental Limits				
Operating Temperature	0 to 60C	0 to 55C	0 to 55C	0 to 55C
Storage Temperature	-20 to 85C	-40 to 75C	-40 to 75C	-40 to 75C
Humidity	5 to 95%, (Non-Condensing)	5 to 95%, (Non-Condensing)	5 to 95%, (Non-Condensing)	5 to 95%, (Non-Condensing)
Warranty	1 Year	1 Year	1 Year	1 Year

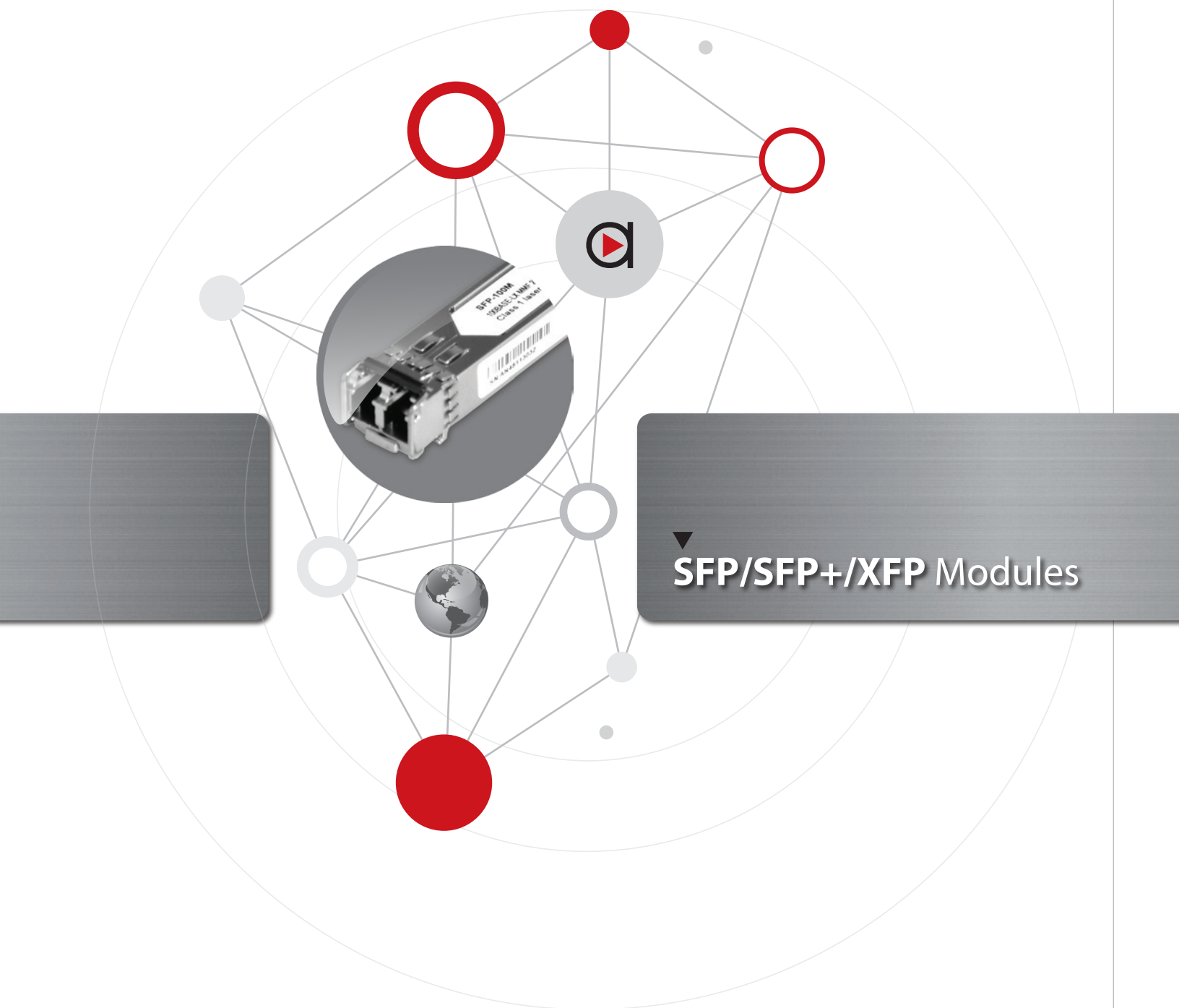
Ordering Information Industrial Serial Connectivity

Name	Description
Industrial Serial-to-Ethernet Device Servers	
STE-501C	1-Port Industrial Serial RS232/422/485 To Ethernet Device Server
STE-502C	2-Port Industrial Serial RS232/422/485 To Ethernet Device Server
STE-601C	1-Port Industrial Serial RS232/422/485 To Ethernet Device Server; EOT: -20 to 70C
STE-604C	4-Port Industrial Serial RS232/422/485 To Ethernet Device Server, w/2*10/100Tx, -35 to 75C
STE-6104C-T	4-Port Industrial Serial RS232/422/485 To Ethernet Device Server, w/DUAL LAN; EOT: -40 to 80C
STE-708A (Preliminary)	8-Port 1U 19" Rackmount Industrial Serial RS232 to Ethernet Device Server, w/DUAL LAN, AC Input
STE-708A-EU (Preliminary)	8-Port 1U 19" Rackmount Industrial Serial RS232 to Ethernet Device Server, w/DUAL LAN, AC Input, EU Plug
STE-708Bi (Preliminary)	8-Port 1U 19" Rackmount Industrial Serial R422/485 to Ethernet Device Server w/Optical Isolation, DUAL LAN, AC Input
STE-708Bi-EU (Preliminary)	8-Port 1U 19" Rackmount Industrial Serial R422/485 to Ethernet Device Server w/Optical Isolation, DUAL LAN, AC Input, EU Plug
STE-516C	16-Port 1U 19" Rackmount Industrial Serial RS232/422/485 To Ethernet Device Server, w/2*10/100Tx
STE-716A (Preliminary)	16-Port 1U 19" Rackmount Industrial Serial RS232 to Ethernet Device Server, w/DUAL LAN, AC Input
STE-716A-EU (Preliminary)	16-Port 1U 19" Rackmount Industrial Serial RS232 to Ethernet Device Server, w/DUAL LAN, AC Input, EU Plug
STE-716Bi (Preliminary)	16-Port 1U 19" Rackmount Industrial Serial R422/485 to Ethernet Device Server w/Optical Isolation, DUAL LAN, AC Input
STE-716Bi-EU (Preliminary)	16-Port 1U 19" Rackmount Industrial Serial R422/485 to Ethernet Device Server w/Optical Isolation, DUAL LAN, AC Input, EU Plug
Industrial Serial-to-Fieldbus Gateways	
STM-501C	1-Port RS232/422/485 Modbus TCP to Serial RTU/ASCII Gateway
STM-614C (Preliminary)	4-Port Industrial Modbus ASCII/RTU RS232/422/485 to Modbus TCP Gateway
Industrial Serial-to-Wireless Device Servers	
STW-601C	1-Port Industrial RS232/422/485 to Wi-Fi Device Server, EOT: -20 to 60C
STW-602C	2-Port Industrial RS232/422/485 to Wi-Fi Device Server, EOT: -20 to 60C
STW-611C	1-Port (RS232/422/485) Industrial 802.11b/g/n Wireless Serial Device Server, Client Mode
STW-612C	2-Port (RS232/422/485) Industrial 802.11b/g/n Wireless Serial Device Server, Client Mode
Industrial Serial-to-Fiber Converters	
STF-300C-CM02	RS232/422/485 to Fiber Converter, Multi-Mode 2Km, SC Connector
STF-300C-TM02	RS232/422/485 to Fiber Converter, Multi-Mode 2Km, ST Connector
STF-300C-CS30	RS232/422/485 to Fiber Converter, Single-Mode 30Km, SC Connector
STF-300C-TS30	RS232/422/485 to Fiber Converter, Single-Mode 30Km, ST Connector
STF-300C-CS50	RS232/422/485 to Fiber Converter, Single-Mode 50Km, SC Connector
STF-300C-CS80	RS232/422/485 to Fiber Converter, Single-Mode 80Km, SC Connector
STF-300C-WA20	RS232/422/485 to Fiber Converter, WDM-A 20Km, Tx1310nm - Rx1550nm, SC Connector
STF-300C-WB20	RS232/422/485 to Fiber Converter, WDM-B 20Km, Tx1550nm - Rx1310nm, SC Connector
STF-401C-CM02-T	Industrial Compact RS232/422/485 To Fiber Converter, Multi-Mode 2Km, SC Connector, -40 to 70C
STF-401C-TM02-T	Industrial Compact RS232/422/485 To Fiber Converter, Multi-Mode 2Km, ST Connector, -40 to 70C
STF-401C-CS30-T	Industrial Compact RS232/422/485 To Fiber Converter, Single-Mode 30Km, SC Connector, -40 to 70C
STF-401C-TS30-T	Industrial Compact RS232/422/485 To Fiber Converter, Single-Mode 30Km, ST Connector, -40 to 70C
STF-501C-CM02	Industrial RS232/422/485 to Fiber Converter, 2.5KV Isolation, Multi-Mode 2Km, SC Connector, 0 to 60C
STF-501C-CM02-T	Industrial RS232/422/485 to Fiber Converter, 2.5KV Isolation, Multi-Mode 2Km, SC Connector, EOT: -40 to 75C
STF-501C-TM02	Industrial RS232/422/485 to Fiber Converter, 2.5KV Isolation, Multi-Mode 2Km, ST Connector, 0 to 60C
STF-501C-TM02-T	Industrial RS232/422/485 to Fiber Converter, 2.5KV Isolation, Multi-Mode 2Km, ST Connector, EOT: -40 to 75C
STF-501C-CS30	Industrial RS232/422/485 to Fiber Converter, 2.5KV Isolation, Single-Mode 30Km, SC Connector, 0 to 60C
STF-501C-CS30-T	Industrial RS232/422/485 to Fiber Converter, 2.5KV Isolation, Single-Mode 30Km, SC Connector, EOT: -40 to 75C
STF-501C-TS30	Industrial RS232/422/485 to Fiber Converter, 2.5KV Isolation, Single-Mode 30Km, ST Connector, 0C to 60C
STF-501C-TS30-T	Industrial RS232/422/485 to Fiber Converter, 2.5KV Isolation, Single-Mode 30Km, ST Connector, EOT: -40 to 75C
STF-502C-CM02	Industrial RS232/422/485 to Dual Fiber Ports Converter, 2.5KV Isolation, Multi-Mode 2Km, SC Connector, 0 to 60C
STF-502C-CM02-T	Industrial RS232/422/485 to Dual Fiber Ports Converter, 2.5KV Isolation, Multi-Mode 2Km, SC Connector, EOT: -40 to 75C
STF-502C-TM02	Industrial RS232/422/485 to Dual Fiber Ports Converter, 2.5KV Isolation, Multi-Mode 2Km, ST Connector, 0 to 60C
STF-502C-TM02-T	Industrial RS232/422/485 to Dual Fiber Ports Converter, 2.5KV Isolation, Multi-Mode 2Km, ST Connector, EOT: -40 to 75C
STF-502C-CS30	Industrial RS232/422/485 to Dual Fiber Ports Converter, 2.5KV Isolation, Single-Mode 30Km, SC Connector, 0 to 60C
STF-502C-CS30-T	Industrial RS232/422/485 to Dual Fiber Ports Converter, 2.5KV Isolation, Single-Mode 30Km, SC Connector, EOT: -40 to 75C
STF-502C-TS30	Industrial RS232/422/485 to Dual Fiber Ports Converter, 2.5KV Isolation, Single-Mode 30Km, ST Connector, 0 to 60C
STF-502C-TS30-T	Industrial RS232/422/485 to Dual Fiber Ports Converter, 2.5KV Isolation, Single-Mode 30Km, ST Connector, EOT: -40 to 75C



Serial-to-Serial Media Converters	
STS-1915S	RS232 to RS422/485 Converter w/ Surge Protection, Port-Powered, (External Power Adapter Optional)
STS-1915SI	RS232 to RS422/485 Converter w/ Surge & Isolation Protection, (Includes Power Adapter)
STS-1920SI	RS232 to RS232 Repeater w/ Surge & 3-Way Isolation Protection
STS-1921SI	RS232 to RS232 7-Wire 2500Vrms Isolator, w/ 15KV ESD Protection
SED-1010S	Industrial High Speed RS232 Over CAT-5 Extender Up to 1.2Km w/ Surge Protection & EOT: -30 to 75C
Multiport Serial Cards	
MSC-102A	2-Port RS232 Universal PCI Card
MSC-102AL-1	2-Port RS232 Universal PCI Card, Low Profile, Low & Standard Profile Brackets Included
MSC-102B	2-Port RS422/485 Universal PCI Card
MSC-102B1	2-Port RS422/485 Universal PCI Card
MSC-102B1-SI	2-Port RS422/485 Universal PCI Card w/ Surge and Isolation
MSC-102B1L	2-Port RS422/485 Low Profile Universal PCI Card
MSC-102B1L-SI	2-Port RS422/485 Low Profile Universal PCI Card w/ Surge and Isolation
MSC-102C	2-Port RS232/422/485 PCI Card
MSC-102C-SI	2-Port RS232/422/485 PCI Card w/ Surge & Isolation
MSC-104A1	4-Port RS232 Universal PCI Card
MSC-104B	4-Port RS422/485 Universal PCI Card
MSC-104B-SI	4-Port RS422/485 Universal PCI Card w/ Surge and Isolation
MSC-108A	8-Port RS232 Universal PCI Card
MSC-108B	8-Port RS422/485 Universal PCI Card
MSC-116A	16-Port RS232 Universal PCI Card
MSC-201B1	1-Port RS422/485 PCI Express Card, Oxford Single Chip Solution
MSC-201B1-SI	1-Port RS422/485 PCI Express Card w/ Surge and Isolation, Oxford Single Chip Solution
MSC-202A-V2	2-Port RS232 PCI Express Card, Support Power Over Pin-9
MSC-202A1	2-Port RS232 PCI Express Card with Oxford Single Chip, Support Power Over Pin-9
MSC-202AL1	2-Port RS232 PCI Express Card, Low Profile (Support Power Over Pin-9)
MSC-202ALP1	2-Port RS232 + 1-Port Parallel PCI Express Card, Low Profile (Support Power Over Pin-9)
MSC-202B1	2-Port RS422/485 PCI Express Card, Oxford Single Chip Solution
MSC-202B1-SI	2-Port RS422/485 PCI Express Card w/ Surge and Isolation, Oxford Single Chip Solution, (WHQL Certified)
MSC-202B1L	2-Port RS422/485 PCI Express Card
MSC-202B1L-SI	2-Port RS422/485 PCI Express Card
MSC-204A1	4-Port RS232 PCI Express Card with Oxford Single Chip, Support Power Over Pin-9
MSC-204A2	4-Port RS232 PCI Express Card, Support Power Over Pin-9
MSC-204B1	4-Port RS422/485 PCI Express Card, Oxford Single Chip Solution, Low & Standard Profile Brackets Included (WHQL Certified)
MSC-204B1-SI	4-Port RS422/485 PCI Express Card w/ Surge and Isolation, Oxford Single Chip Solution, Low & Standard Profile Brackets Included (WHQL Certified)
MSC-208A1	8-Port RS232 PCI Express Card w/ Oxford Single Chip, Standard & Low Profile Brackets (Supports Power Over Pin-9)
MSC-208C	8-Port RS232/422/485 PCI Express Card, w/ Extension Box (WHQL Certified)
MSC-208C-SI	8-Port RS232/422/485 PCI Express Card, w/ Surge and Isolation Protection (WHQL Certified)
MSC-216A	16-Port RS232 PCI Express Card (Serial Cables Included)
Industrial USB-to-Serial	
UTS-1110A	Industrial USB to 1-Port RS232 Converter (DB9M) w/ Tx/Rx LED Indicators 80cm/2.6ft
UTS-1448A	USB to 1-Port RS232 Converter (DB9), 1.8M
UTS-1458B	USB to 1-Port RS422/485 Converter (DB9), 1.8M
UTS-1461A-SI	USB to 1-Port RS232 (DB9M) w/ Surge and Isolation, 2.5M
UTS-401BK-SI	Industrial USB to 1-Port RS422/485 Converter w/ Locking Feature, Surge& Isolation
UTS-402CK	Industrial 2-Port RS232 to USB 2.0 High Speed Converter w/ Locking Feature
UTS-402CK-SI	Industrial 2-Port RS232 to USB 2.0 High Speed Converter w/ Locking Feature , Surge & Isolation
UTS-404A	Industrial 4-Port RS232 to USB 2.0 High Speed Converter
UTS-404AK	Industrial 4-Port RS232 to USB 2.0 High Speed Converter w/ Locking Feature
UTS-404A-SI	Industrial 4-Port RS232 to USB 2.0 High Speed Converter w/ Surge & Isolation
UTS-408A	Industrial 8-Port RS232 to USB 2.0 High Speed Converter
UTS-408AK	Industrial 8-Port RS232 to USB 2.0 High Speed Converter w/ Locking Feature
UTS-408AK-SI	Industrial 8-Port RS232 to USB 2.0 High Speed Converter w/ Locking Feature, Surge & Isolation
UTS-408A-SI	Industrial 8-Port RS232 to USB 2.0 High Speed Converter w/ Surge & Isolation
UTS-408CK	Industrial 8-Port RS232/422/485 to USB 2.0 High Speed Converter w/ Locking Feature
UTS-416AK	Industrial 16-Port RS232 to USB 2.0 High Speed Converter w/ Locking Feature

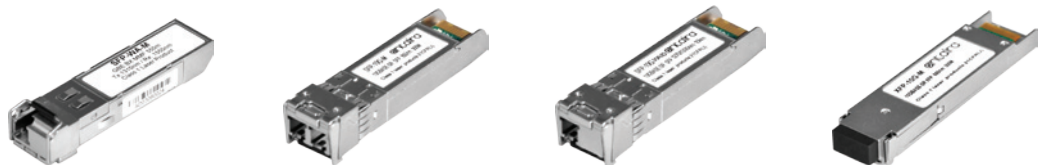
Industrial USB HUBs	
USB-HUB4K	Industrial 4-Port USB 2.0 Hub, Metal Case, w/ Locking Feature
USB-HUB4K3	Industrial 4-Port USB 3.0 Hub, Metal Case, w/ Locking Feature, No Power Adapter
USB-HUB7K	Industrial 7-Port USB 2.0 Hub, Metal Case, w/ Locking Feature
USB-HUB3-7K	Industrial 7-Port USB 3.0 Hub, Metal Case, w/ Locking Feature
UTE-404K	4-Port USB 2.0 to Gigabit Ethernet Adapter
USB Expansions	
USB-14010-SI	USB Isolator: Provides 2,500Vrms Isolation Between a USB Host and USB Peripheral
USB-14112K	Industrial 2-Port USB 2.0 Extension Card, w/ Locking Feature
USB-68001	USB 3+1 Port PCI Express Card
USB-68001L	USB 3+1 Port PCI Express Card - Low Profile
USB-68101K	Industrial 2+2 Port USB 2.0 PCIe Card, w/ Locking Feature



SFP/SFP+/XFP Modules



Model Names	SFP-100 Series	SFP-100WA/B Series	SFP-C Series	SFP-M / SFP-S Series
Type	100Mbps SFP	100Mbps SFP (WDM)	1G SFP (Copper)	1G SFP
Parameters				
Compatible Version	Cisco, HP	Cisco, HP	Cisco, HP	Cisco, HP
Data Rate	155Mbps	125 ~ 155Mbps, NRZ	1.25Gbps	1.25Gbps
Interface	Duplex LC	LC (Single-Mode WDM)	RJ45	Duplex LC
Cable Length	-	-	100M	-
Transmission Distance	Options: 2-40Km	20Km	100M	Options: 550m-40Km
Wavelength	1310nm (Multi/Single-Mode)	WA: Tx 1310 / Rx 1550nm WB: Tx 1550 / Rx 1310nm	-	Multi-Mode: 850/1310nm Single-Mode: 1310/1550nm
Sensitivity	≤-32 dBm	≤-32 dBm	-	≤-17~23 dBm
Operating Voltage	3.3V TTL AC/AC	3.3V TTL AC/AC	3.3V	3.3V TTL AC/AC
Output Power	-19 ~ -14 dBm	-14 ~ 8 dBm	-	-9.5 ~ +1 dBm
Operating Temperature	STD: 0 to 70C EOT: -40 to 85C	STD: 0 to 70C EOT: -40 to 85C	STD: 0 to 70C	STD: 0 to 70C EOT: -40 to 85C
Storage Temperature	-40 to 85C	-40 to 85C	-40 to 85C	-40 to 85C
RoHS Compliant	Yes	Yes	Yes	Yes
Dimensions	13.7 x 56.5 x 8.95 mm	13.7 x 56.5 x 8.95 mm	5.5 x 87.1 x 5.38 mm	13.7 x 56.5 x 8.95 mm
Warranty	5 Years	5 Years	5 Years	5 Years



Model Names	SFP-WA/B Series	SFP-10G Series	SFP-10G-WA/B Series	XFP-10G Series
Type	1G SFP (WDM)	10G SFP+	10G SFP+ (WDM)	10G XFP
Parameters				
Compatible Version	Cisco, HP	Cisco, HP, DELL	Cisco, HP	Cisco
Data Rate	1.25Gbps	10.3125Gbps	10.3125Gbps	10.3125Gbps
Interface	LC (Single-Mode WDM)	Duplex LC	LC (Single-Mode WDM)	Duplex LC
Cable Length	-	-	-	-
Transmission Distance	Options: 550m-80Km	Options: 300m-80Km	Options: 300m-80Km	Options: 300m-80Km
Wavelength	Multi-Mode: 850/1310nm Single-Mode: 1310/1550nm	Multi-Mode: 850 Single-Mode: 1310/1550nm	Multi-Mode: 850 Single-Mode: 1310/1550nm	Multi-Mode: 850 Single-Mode: 1310/1550nm
Sensitivity	≤-21 dBm	≤-11.1 dBm	≤-14.4 dBm	≤-11.1 dBm
Operating Voltage	3.3V TTL AC/AC	3.3V TTL AC/AC	3.3V TTL AC/AC	3.3V TTL AC/AC
Output Power	-9.5 ~ +1 dBm	-6.5 ~ +1 dBm	-9.5 ~ +1 dBm	-6.5 ~ -1 dBm
Operating Temperature	STD: 0 to 70C EOT: -40 to 85C	STD: 0 to 70C	STD: 0 to 70C	STD: 0 to 70C
Storage Temperature	-40 to 85C	-40 to 85C	-40 to 85C	-40 to 85C
RoHS Compliant	Yes	Yes	Yes	Yes
Dimensions	13.7 x 56.5 x 8.95 mm	13.7 x 56.5 x 8.95 mm	13.7 x 56.5 x 8.95 mm	13.7 x 56.5 x 8.95 mm
Warranty	5 Years	5 Years	5 Years	5 Years



Ordering Information - SFP/SFP+/XFP Modules

All SFP's are Cisco Compatible Unless Otherwise Noted

Name	Description
100Mbps SFP Module	
SFP-100M	155Mbps Fast Ethernet SFP Transceiver, Multi-Mode 2Km / LC / 1310nm, 0 to 70C
SFP-100M-T	155Mbps Fast Ethernet SFP Transceiver, Multi-Mode 2Km / LC / 1310nm, EOT: -40 to 85C
SFP-100S20	155Mbps Fast Ethernet SFP Transceiver, Single-Mode 20Km / LC / 1310nm, 0 to 70C
SFP-100S20-T	155Mbps Fast Ethernet SFP Transceiver, Single-Mode 20Km / LC / 1310nm, EOT: -40 to 85C
SFP-100S40	155Mbps Fast Ethernet SFP Transceiver, Single-Mode 40Km / LC / 1310nm, 0 to 70C
SFP-100S40-T	155Mbps Fast Ethernet SFP Transceiver, Single-Mode 40Km / LC / 1310nm, EOT: -40 to 85C
SFP-100M-H	**HP Compatible** 155Mbps Fast Ethernet SFP Transceiver, Multi-Mode 2Km / LC / 1310nm, 0 to 70C
SFP-100M-T-H	**HP Compatible** 155Mbps Fast Ethernet SFP Transceiver, Multi-Mode 2Km / LC / 1310nm, EOT: -40 to 85C
SFP-100S20-H	**HP Compatible** 155Mbps Fast Ethernet SFP Transceiver, Single-Mode 20Km / LC / 1310nm, 0 to 70C
SFP-100S20-T-H	**HP Compatible** 155Mbps Fast Ethernet SFP Transceiver, Single-Mode 20Km / LC / 1310nm, EOT: -40 to 85C
SFP-100S40-H	**HP Compatible** 155Mbps Fast Ethernet SFP Transceiver, Single-Mode 40Km / LC / 1310nm, 0 to 70C
SFP-100S40-T-H	**HP Compatible** 155Mbps Fast Ethernet SFP Transceiver, Single-Mode 40Km / LC / 1310nm, EOT: -40 to 85C
100Mbps SFP Module WDM	
SFP-100WA20	155Mbps SFP Transceiver WDM-A, Single-Mode 20Km / LC / Tx:1310nm Rx:1550nm, 0 to 70C
SFP-100WB20	155Mbps SFP Transceiver WDM-B, Single-Mode 20Km / LC / Tx:1550nm Rx:1310nm, 0 to 70C
SFP-100WA20-T	155Mbps SFP Transceiver WDM-A, Single-Mode 20Km / LC / Tx:1310nm Rx:1550nm, EOT: -40 to 85C
SFP-100WB20-T	155Mbps SFP Transceiver WDM-B, Single-Mode 20Km / LC / Tx:1550nm Rx:1310nm, EOT: -40 to 85C
SFP-100WA20-H	**HP Compatible** 155Mbps SFP Transceiver WDM-A, Single-Mode 20Km / LC / Tx:1310nm Rx:1550nm, 0 to 70C
SFP-100WB20-H	**HP Compatible** 155Mbps SFP Transceiver WDM-B, Single-Mode 20Km / LC / Tx:1550nm Rx:1310nm, 0 to 70C
SFP-100WA20-T-H	**HP Compatible** 155Mbps SFP Transceiver WDM-A, Single-Mode 20Km / LC / Tx:1310nm Rx:1550nm, EOT: -40 to 85C
SFP-100WB20-T-H	**HP Compatible** 155Mbps SFP Transceiver WDM-B, Single-Mode 20Km / LC / Tx:1550nm Rx:1310nm, EOT: -40 to 85C
1G SFP Module (Copper)	
SFP-C	10/100/1000BASE-T Copper Ethernet SFP Transceiver, 0 to 70C
SFP-C1	1000BASE-T Copper Ethernet SFP Transceiver, 0 to 70C
SFP-C-H	**HP Compatible** 10/100/1000BASE-T Copper Ethernet SFP Transceiver, 0 to 70C
SFP-C1-H	**HP Compatible** 1000BASE-T Copper Ethernet SFP Transceiver, 0 to 70C
1G SFP Module	
SFP-M	1.25Gbps Ethernet SFP Transceiver, Multi-Mode 550M / LC / 850nm, 0 to 70C
SFP-M-T	1.25Gbps Ethernet SFP Transceiver, Multi-Mode 550M / LC / 850nm, EOT: -40 to 85C
SFP-M2	1.25Gbps Ethernet SFP Transceiver, Multi-Mode 2Km / LC / 1310nm, 0 to 70C
SFP-M2-T	1.25Gbps Ethernet SFP Transceiver, Multi-Mode 2Km / LC / 1310nm, EOT: -40 to 85C
SFP-S10	1.25Gbps Ethernet SFP Transceiver, Single-Mode 10Km / LC / 1310nm, 0 to 70C
SFP-S10-T	1.25Gbps Ethernet SFP Transceiver, Single-Mode 10Km / LC / 1310nm, EOT: -40 to 85C
SFP-S20	1.25Gbps Ethernet SFP Transceiver, Single-Mode 20Km / LC / 1310nm, 0 to 70C
SFP-S20-T	1.25Gbps Ethernet SFP Transceiver, Single-Mode 20Km / LC / 1310nm, EOT: -40 to 85C
SFP-S30	1.25Gbps Ethernet SFP Transceiver, Single-Mode 30Km / LC / 1310nm, 0 to 70C
SFP-S40	1.25Gbps Ethernet SFP Transceiver, Single-Mode 40Km / LC / 1310nm, 0 to 70C
SFP-S60	1.25Gbps Ethernet SFP Transceiver, Single-Mode 60Km / LC / 1550nm, 0 to 70C
SFP-S60-T	1.25Gbps Ethernet SFP Transceiver, Single-Mode 60Km / LC / 1550nm, EOT: -40 to 85C
SFP-S80	1.25Gbps Ethernet SFP Transceiver, Single-Mode 80Km / LC / 1550nm, 0 to 70C
SFP-S80-T	1.25Gbps Ethernet SFP Transceiver, Single-Mode 80Km / LC / 1550nm, EOT: -40 to 85C
SFP-S120	1.25Gbps Ethernet SFP Transceiver, Single-Mode 120Km / LC / 1550nm, 0 to 70C
SFP-S120-T	1.25Gbps Ethernet SFP Transceiver, Single-Mode 120Km / LC / 1550nm, EOT: -40 to 85C
SFP-M-H	**HP Compatible** 1.25Gbps Ethernet SFP Transceiver, Multi-Mode 550m / LC / 850nm, 0 to 70C
SFP-M-T-H	**HP Compatible** 1.25Gbps Ethernet SFP Transceiver, Multi-Mode 550m / LC / 850nm, EOT: -40 to 85C
SFP-M2-H	**HP Compatible** 1.25Gbps Ethernet SFP Transceiver, Multi-Mode 2Km / LC / 1310nm, 0 to 70C
SFP-M2-T-H	**HP Compatible** 1.25Gbps Ethernet SFP Transceiver, Multi-Mode 2Km / LC / 1310nm, EOT: -40 to 85C
SFP-S10-H	**HP Compatible** 1.25Gbps Ethernet SFP Transceiver, Single-Mode 10Km / LC / 1310nm, 0 to 70C
SFP-S10-T-H	**HP Compatible** 1.25Gbps Ethernet SFP Transceiver, Single-Mode 10Km / LC / 1310nm, EOT: -40 to 85C
SFP-S20-H	**HP Compatible** 1.25Gbps Ethernet SFP Transceiver, Single-Mode 20Km / LC / 1310nm, 0 to 70C
SFP-S20-T-H	**HP Compatible** 1.25Gbps Ethernet SFP Transceiver, Single-Mode 20Km / LC / 1310nm, EOT: -40 to 85C
SFP-S40-H	**HP Compatible** 1.25Gbps Ethernet SFP Transceiver, Single-Mode 40Km / LC / 1310nm, 0 to 70C
SFP-S60-H	**HP Compatible** 1.25Gbps Ethernet SFP Transceiver, Single-Mode 60Km / LC / 1550nm, 0 to 70C
SFP-S60-T-H	**HP Compatible** 1.25Gbps Ethernet SFP Transceiver, Single-Mode 60Km / LC / 1550nm, EOT: -40 to 85C

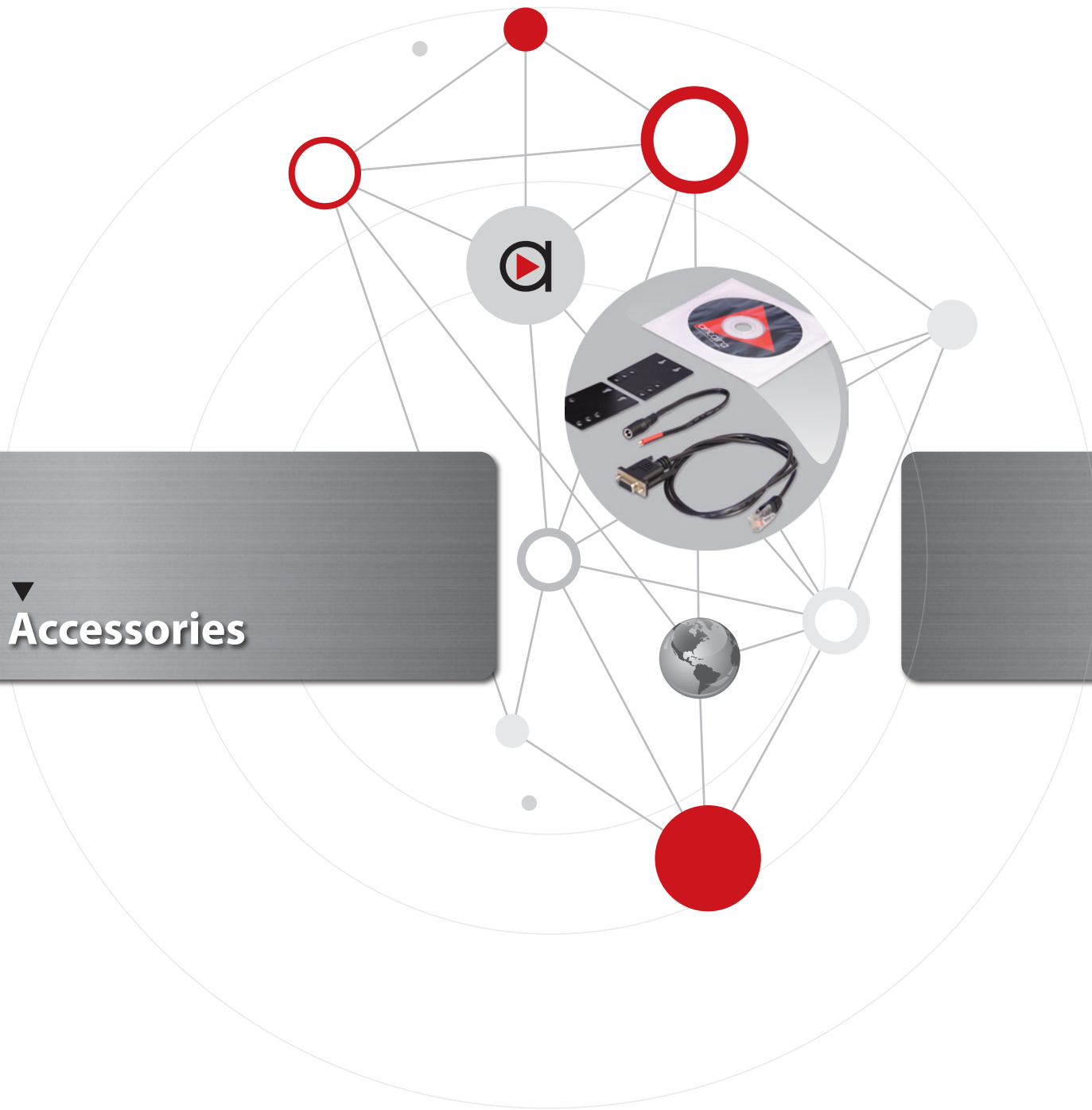
SFP/SFP+/XFP Modules

SFP-S80-H	**HP Compatible** 1.25Gbps Ethernet SFP Transceiver, Single-Mode 80Km / LC / 1550nm, 0 to 70C
SFP-S80-T-H	**HP Compatible** 1.25Gbps Ethernet SFP Transceiver, Single-Mode 80Km / LC / 1550nm, EOT: -40 to 85C
SFP-S120-H	**HP Compatible** 1.25Gbps Ethernet SFP Transceiver, Single-Mode 120Km / LC / 1550nm, 0 to 70C
SFP-S120-T-H	**HP Compatible** 1.25Gbps Ethernet SFP Transceiver, Single-Mode 120Km / LC / 1550nm, EOT: -40 to 85C
1G SFP Modules (WDM)	
SFP-WA-M	1.25G Gigabit SFP Transceiver WDM-A, MM/LC/550M/Tx:1310nm Rx:1550nm, 0 to 70C
SFP-WB-M	1.25G Gigabit SFP Transceiver WDM-B, MM/LC/550M/Tx:1550nm Rx:1310nm, 0 to 70C
SFP-WA10	1.25G Gigabit SFP Transceiver WDM-A, SM/LC/10Km/11.0dB/Tx:1310nm Rx:1550nm, 0 to 70C
SFP-WB10	1.25G Gigabit SFP Transceiver WDM-B, SM/LC/10Km/11.0dB/Tx:1550nm Rx:1310nm, 0 to 70C
SFP-WA10-T	1.25G Gigabit SFP Transceiver WDM-A, SM/LC/10Km/11.0dB/Tx:1310nm Rx:1550nm, EOT: -40 to 85C
SFP-WB10-T	1.25G Gigabit SFP Transceiver WDM-B, SM/LC/10Km/11.0dB/Tx:1550nm Rx:1310nm, EOT: -40 to 85C
SFP-WA20	1.25G Gigabit SFP Transceiver WDM-A, SM/LC/20Km/13.0dB/Tx:1310nm Rx:1550nm, 0 to 70C
SFP-WB20	1.25G Gigabit SFP Transceiver WDM-B, SM/LC/20Km/13.0dB/Tx:1550nm Rx:1310nm, 0 to 70C
SFP-WA40	1.25G Gigabit SFP Transceiver WDM-A, SM/LC/40Km/21.0dB/Tx:1310nm Rx:1550nm, 0 to 70C
SFP-WB40	1.25G Gigabit SFP Transceiver WDM-B, SM/LC/40Km/21.0dB/Tx:1550nm Rx:1310nm, 0 to 70C
SFP-WA60	1.25G Gigabit SFP Transceiver WDM-A, SM/LC/60Km/23.0dB/Tx:1310nm Rx:1550nm, 0 to 70C
SFP-WB60	1.25G Gigabit SFP Transceiver WDM-B, SM/LC/60Km/23.0dB/Tx:1550nm Rx:1310nm, 0 to 70C
SFP-WA80	1.25G Gigabit SFP Transceiver WDM-A, SM/LC/80Km/24.0dB/Tx:1490nm Rx:1550nm, 0 to 70C
SFP-WB80	1.25G Gigabit SFP Transceiver WDM-B, SM/LC/80Km/24.0dB/Tx:1550nm Rx:1490nm, 0 to 70C
SFP-WA-M-H	**HP Compatible** 1.25G Gigabit SFP Transceiver WDM-A, MM/LC/550m/Tx:1310nm Rx:1550nm, 0 to 70C
SFP-WB-M-H	**HP Compatible** 1.25G Gigabit SFP Transceiver WDM-B, MM/LC/550m/Tx:1550nm Rx:1310nm, 0 to 70C
SFP-WA10-H	**HP Compatible** 1.25G Gigabit SFP Transceiver WDM-A, SM/LC/10Km/11.0dB/Tx:1310nm Rx:1550nm, 0 to 70C
SFP-WB10-H	**HP Compatible** 1.25G Gigabit SFP Transceiver WDM-B, SM/LC/10Km/11.0dB/Tx:1550nm Rx:1310nm, 0 to 70C
SFP-WA10-T-H	**HP Compatible** 1.25G Gigabit SFP Transceiver WDM-A, SM/LC/10Km/11.0dB/Tx:1310nm Rx:1550nm, EOT: -40 to 85C
SFP-WB10-T-H	**HP Compatible** 1.25G Gigabit SFP Transceiver WDM-B, SM/LC/10Km/11.0dB/Tx:1550nm Rx:1310nm, EOT: -40 to 85C
SFP-WA20-H	**HP Compatible** 1.25G Gigabit SFP Transceiver WDM-A, SM/LC/20Km/13.0dB/Tx:1310nm Rx:1550nm, 0 to 70C
SFP-WB20-H	**HP Compatible** 1.25G Gigabit SFP Transceiver WDM-B, SM/LC/20Km/13.0dB/Tx:1550nm Rx:1310nm, 0 to 70C
SFP-WA40-H	**HP Compatible** 1.25G Gigabit SFP Transceiver WDM-A, SM/LC/40Km/21.0dB/Tx:1310nm Rx:1550nm, 0 to 70C
SFP-WB40-H	**HP Compatible** 1.25G Gigabit SFP Transceiver WDM-B, SM/LC/40Km/21.0dB/Tx:1550nm Rx:1310nm, 0 to 70C
SFP-WA60-H	**HP Compatible** 1.25G Gigabit SFP Transceiver WDM-A, SM/LC/60Km/23.0dB/Tx:1310nm Rx:1550nm, 0 to 70C
SFP-WB60-H	**HP Compatible** 1.25G Gigabit SFP Transceiver WDM-B, SM/LC/60Km/23.0dB/Tx:1550nm Rx:1310nm, 0 to 70C
SFP-WA80-H	**HP Compatible** 1.25G Gigabit SFP Transceiver WDM-A, SM/LC/80Km/24.0dB/Tx:1510nm Rx:1590nm, 0 to 70C
SFP-WB80-H	**HP Compatible** 1.25G Gigabit SFP Transceiver WDM-B, SM/LC/80Km/24.0dB/Tx:1590nm Rx:1510nm, 0 to 70C
10G SFP+ Modules	
SFP-10G-M	10G SFP+ SR Transceiver, Multi-Mode 300m / LC / 850nm, 0 to 70C
SFP-10G-S10	10G SFP+ LR Transceiver, Single-Mode 10Km / LC / 1310nm, 0 to 70C
SFP-10G-S40	10G SFP+ ER Transceiver, Single-Mode 40Km / LC / 1550nm, 0 to 70C
SFP-10G-S80	10G SFP+ ZR Transceiver, Single-Mode 80Km / LC / 1550nm, 0 to 70C
SFP-10G-M-DELL	** DELL Compatible ** 10G SFP+ SR Transceiver, Multi-Mode 300m/ LC / 850nm, 0 to 70C
SFP-10G-S10-DELL	** DELL Compatible ** 10G SFP+ LR Transceiver, Single-Mode 10Km / LC / 1310nm, 0 to 70C
SFP-10G-S40-DELL	** DELL Compatible ** 10G SFP+ ER Transceiver, Single-Mode 40Km / LC / 1550nm, 0 to 70C
SFP-10G-S80-DELL	** DELL Compatible ** 10G SFP+ ZR Transceiver, Single-Mode 80Km / LC / 1550nm, 0 to 70C
SFP-10G-M-H	**HP Compatible** 10G SFP+ SR Transceiver, Multi-Mode 300m / LC / 850nm, 0 to 70C
SFP-10G-M-H3	**HP H3C Compatible** 10G SFP+ SR Transceiver, Multi-Mode 300m / LC / 850nm, 0 to 70C
SFP-10G-S10-H	**HP Procurve Series Compatible** 10G SFP+ LR Transceiver, Single-Mode 10Km / LC / 1310nm, 0 to 70C
SFP-10G-S10-H3	**HP H3C Series Compatible** 10G SFP+ LR Transceiver, Single-Mode 10Km / LC / 1310nm, 0 to 70C
SFP-10G-S40-H	**HP Compatible** 10G SFP+ ER Transceiver, Single-Mode 40Km / LC / 1550nm, 0 to 70C
SFP-10G-S80-H	**HP Compatible** 10G SFP+ ZR Transceiver, Single-Mode 80Km / LC / 1550nm, 0 to 70C
10G SFP+ Modules (WDM)	
SFP-10G-WA10	10G Fiber SFP+ Transceiver WDM-A, Single-Mode 10Km / LC / Tx:1270nm Rx:1330nm, 0 to 70C
SFP-10G-WB10	10G Fiber SFP+ Transceiver WDM-B, Single-Mode 10Km / LC / Tx:1330nm Rx:1270nm, 0 to 70C
SFP-10G-WA20	10G Fiber SFP+ Transceiver WDM-A, Single-Mode 20Km / LC / Tx:1270nm Rx:1330nm, 0 to 70C
SFP-10G-WB20	10G Fiber SFP+ Transceiver WDM-B, Single-Mode 20Km / LC / Tx:1330nm Rx:1270nm, 0 to 70C
SFP-10G-WA40	10G Fiber SFP+ Transceiver WDM-A, Single-Mode 40Km / LC / Tx:1270nm Rx:1330nm, 0 to 70C



SFP/SFP+/XFP Modules

SFP-10G-WB40	10G Fiber SFP+ Transceiver WDM-A, Single-Mode 40Km / LC / Tx:1330nm Rx:1270nm, 0 to 70C
SFP-10G-WA60	10G Fiber SFP+ Transceiver WDM-A, Single Mode 60Km / LC / Tx:1270nm Rx:1330nm, 0 to 70C
SFP-10G-WB60	10G Fiber SFP+ Transceiver WDM-B, Single Mode 60Km / LC / Tx:1330nm Rx:1270nm, 0 to 70C
SFP-10G-WA10-H	** HP Procurve Compatible ** 10G Fiber SFP+ Transceiver WDM-A, Single-Mode 10Km / LC / Tx:1270nm Rx:1330nm, 0 to 70C
SFP-10G-WB10-H	** HP Procurve Compatible ** 10G Fiber SFP+ Transceiver WDM-B, Single-Mode 10Km / LC / Tx:1330nm Rx:1270nm, 0 to 70C
SFP-10G-WA20-H	** HP Procurve Compatible ** 10G Fiber SFP+ Transceiver WDM-A, Single-Mode 20Km / LC / Tx:1270nm Rx:1330nm, 0 to 70C
SFP-10G-WB20-H	** HP Procurve Compatible ** 10G Fiber SFP+ Transceiver WDM-B, Single-Mode 20Km / LC / Tx:1330nm Rx:1270nm, 0 to 70C
SFP-10G-WA40-H	** HP Procurve Compatible ** 10G Fiber SFP+ Transceiver WDM-A, Single-Mode 40Km / LC / Tx:1270nm Rx:1330nm, 0 to 70C
SFP-10G-WB40-H	** HP Procurve Compatible ** 10G Fiber SFP+ Transceiver WDM-B, Single-Mode 40Km / LC / Tx:1330nm Rx:1270nm, 0 to 70C
SFP-10G-WA60-H	** HP Procurve Compatible ** 10G Fiber SFP+ Transceiver WDM-A, Single-Mode 60Km / LC / Tx:1270nm Rx:1330nm, 0 to 70C
SFP-10G-WB60-H	** HP Procurve Compatible ** 10G Fiber SFP+ Transceiver WDM-B, Single-Mode 60Km / LC / Tx:1330nm Rx:1270nm, 0 to 70C
SFP-10G-WA10-H3	** HP H3C Compatible ** 10G Fiber SFP+ Transceiver WDM-A, Single-Mode 10Km / LC / Tx:1270nm Rx:1330nm, 0 to 70C
SFP-10G-WB10-H3	** HP H3C Compatible ** 10G Fiber SFP+ Transceiver WDM-B, Single-Mode 10Km / LC / Tx:1330nm Rx:1270nm, 0 to 70C
SFP-10G-WA20-H3	** HP H3C Compatible ** 10G Fiber SFP+ Transceiver WDM-A, Single-Mode 20Km / LC / Tx:1270nm Rx:1330nm, 0 to 70C
SFP-10G-WB20-H3	** HP H3C Compatible ** 10G Fiber SFP+ Transceiver WDM-B, Single-Mode 20Km / LC / Tx:1330nm Rx:1270nm, 0 to 70C
SFP-10G-WA40-H3	** HP H3C Compatible ** 10G Fiber SFP+ Transceiver WDM-A, Single-Mode 40Km / LC / Tx:1270nm Rx:1330nm, 0 to 70C
SFP-10G-WB40-H3	** HP H3C Compatible ** 10G Fiber SFP+ Transceiver WDM-B, Single-Mode 40Km / LC / Tx:1330nm Rx:1270nm, 0 to 70C
SFP-10G-WA60-H3	** HP H3C Compatible ** 10G Fiber SFP+ Transceiver WDM-A, Single-Mode 60Km / LC / Tx:1270nm Rx:1330nm, 0 to 70C
SFP-10G-WB60-H3	** HP H3C Compatible ** 10G Fiber SFP+ Transceiver WDM-B, Single-Mode 60Km / LC / Tx:1330nm Rx:1270nm, 0 to 70C
10G XFP Modules	
XFP-10G-M	10G XFP SR Transceiver, Multi-Mode 300m / LC / 850nm, 0 to 70C
XFP-10G-S10	10G XFP LR Transceiver, Single-Mode 10Km / LC / 1310nm, 0 to 70C
XFP-10G-S40	10G Ethernet XFP Transceiver, Single-Mode 40km / LC / 1550nm, 0 to 70C
XFP-10G-S80	10G XFP ER Transceiver, Single-Mode 80Km / LC / 1550nm, 0 to 70C



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Accessories



Ordering Information

Ordering Information - Industrial Ethernet Accessories

Name	Description
Fiber Couplers	
CPLR-LCLC-FD	Fiber Coupler - LC to LC - Female Duplex
CPLR-SCSC-FD	Fiber Coupler - SC to SC - Female Duplex
CPLR-SCST-FD	Fiber Coupler - SC to ST - Female Duplex
DIN-Rail Accessories	
DIN-RACK-2U	Din-Rail to 19" Rack Mount Adapter for all Din-Rail Mountable Products, 2U Height
DIN-RAIL-10	35mm Steel DIN-Rail Track - 10 Inches Long
DIN-RAIL-12	35mm Steel DIN-Rail Track - 12 Inches Long
DIN-RAIL-24	35mm Steel DIN-Rail Track - 24 Inches Long
DIN-RAIL-26	35mm Steel DIN-Rail Track - 26 Inches Long
M12 Ethernet Cables	
CB-M12A3PM-5M	M12 A Code 3P Male to Open Cable, 5 Meter, Wire:UL 24AWG*5C Black, IP68 Protection
CB-M12A5PF-5M	M12 A Code 5P Female to Open Cable, 5 Meter, Wire:UL 24AWG*5C Black, IP68 Protection
CB-M12D4PM-RJ45-5M	M12 D Code 4P Male to RJ45 Cable, 5 Meter, Wire: CAT5e STP 24AWG Black, IP68 Protection

Ordering Information - Industrial Wireless Accessories

Name	Description
Antennas	
ANT-OM-2405	2.4 - 2.5 GHz Outdoor Omni Antenna 5dBi, N-type Male Connector
ANT-OM-2408	2.4 - 2.5 GHz Outdoor Omni Antenna 8dBi
ANT-OM-2409	2.4 - 2.5 GHz Outdoor Omni Antenna 9dBi
ANT-OM-2410	2.4 - 2.5 GHz Outdoor Omni Antenna 10dBi
ANT-OM-2412	2.4 - 2.5 GHz Outdoor Omni Antenna 12dBi
ANT-OM-2415	2.4 - 2.5 GHz Outdoor Omni Antenna 15dBi
ANT-OM-5808	5.1 - 5.9 GHz Outdoor Omni Antenna 8dBi
ANT-OM-5810	5.1 - 5.9 GHz Outdoor Omni Antenna 10dBi
ANT-OM-5812	5.1 - 5.9 GHz Outdoor Omni Antenna 12dBi
ANT-OM-5815	5.1 - 5.9 GHz Outdoor Omni Antenna 15dBi
ANT-PA-2414	2.4 - 2.5 GHz Outdoor Panel Antenna 14dBi
ANT-PA-2419	2.4 - 2.5 GHz Outdoor Panel Antenna 19dBi
ANT-PA-5814	5.1 - 5.9 GHz Outdoor Panel Antenna 14dBi
ANT-PA-5818	5.1 - 5.9 GHz Outdoor Panel Antenna 18dBi
Antenna Cables	
CB-NM-NM-C400-1M	Antenna Cable N-type Male to N-type Male, CFD400, 1 Meter
CB-RSMAM-NM-C200-1M	RF Cable, Reverse SMA Male to N-type Male, C200, 1 Meter
CB-RSMAM-RSMAF-C200-1M	RF Cable, Reverse SMA Male to Reverse SMA Female, C200, 1 Meter
Power Supplies	
PA-10-24	AC/DC Power Adapter, Input 120VAC, Output 24VDC @ 400mA
PA-48-48-US	PoE Injector, Input 100-240VAC/2A, Output 48VDC/1A

Ordering Information - Industrial Serial Accessories

Name	Description
Accessories - Serial Device Servers	
CB-RJ45-DB9M-30	Connection Cable (RJ45-to-DB9M), for STE-516C, 30cm
PA-LNX-US	Power Adapter for STE(W)-501/601 & LNX/IMC, w/ T/B (US Plug)
PA-STE501-EU	Power Adapter for STE-501 (Euro Plug)
PA-STE501-US	Power Adapter for STE-501 (US Plug)
PA-STE502-EU	Power Adapter for STE-502C w/Lock (Euro Plug)
PA-STE502-US	Power Adapter for STE-502C w/Lock (US Plug)
PA-STX-EU	Power Adapter for STE(W)-501/601 & LNX/IMC (Euro Plug)
PA-STX-US	Power Adapter for STE(W)-501/601 & LNX/IMC (US Plug)
Accessories - Serial Converters	
PA-0502-DP13-US	Power Adapter for STS- and RN- , 5V@2A, 100-240VAC, 1.3mm/3.5mm
PA-ST5-UPA	USB Power Cord for STS-19155
PA-ST5-US	Power Adapter for STS-, RN- Series, 5V@1A, 100-240VAC
Accessories - Multiport Serial Cards	
CB-M37M25-4	Cable DB37M to DB25M*4
CB-M44-F25M9X2-30	Serial Cable for MSC-202ALP, DB44M To DB25F+DB9Mx2, 30CM
CB-M44M25-4	Cable DB44M to DB25M*4
CB-M44M9X4-30	Serial Cable DB44M to DB9M*4 for MSC-104A/204A, 30CM Black
CB-M62F9X8-48	Cable DB62M to DB9F*8 Custom Cable For Wipro
CB-M62M25-8	Cable DB62M to DB25M*8
CB-M62M9-8	Cable DB62M to DB9M*8
CB-M62M9X8-48	Serial Cable DB62M to DB9M*8 for MSC-108A/208A, 48cm Black
CB-M78M25-8	Cable DB78M to DB25M*8
CB-RJ45M25-1	Cable RJ45 to DB25M*1
Accessories - USB	
CB-USB3.0-A-B-2M-K	USB 3.0 Cable, A to B w/ Locking Feature, 2m, Black
CB-USBAM-USBAF-10F	USB 2.0 Cable, A-Male to A-Female, 10 Feet, Black
CB-USBAM-USBAF-15F	USB 2.0 Cable, A-Male to A-Female, 15 Feet, Black
CB-USBAM-USBAF-3F	USB 2.0 Cable, A-Male to A-Female, 3 Feet, Black
CB-USBAM-USBAF-6F	USB 2.0 Cable, A-Male to A-Female, 6 Feet, Black
CB-USBA-USBB-2M-K	USB 2.0 Cable, A to B w/ Locking Feature, 2m, Black
CB-USBA-USBB-5M-K	USB 2.0 Cable, A to B w/ Locking Feature, 5m, Black
CB-USBB-MUSBA-0.5M-K	USB 2.0 Cable, USB-B to MiniUSB-A w/ Locking Feature, 0.5m, Black
CB-USBB-USBB-15CM-K	USB 2.0 Cable, USB-B Male to USB-B Female w/ Locking Feature, 6" (15cm), Black, Panel Mount
PA-UTS3-US	Power Adapter for USB-HUB4K3, 12V@3A, (US Plug)
PA-UTS-K-US	Power Adapter w/ Locking Feature for UTS Products, 5V 2A, (US Plug)
Adapters - Serial Connectivity	
AD-DB9F-DB25M	Serial Adapter - DB9 Female to DB25 Male Adapter
AD-DB9F-TB2X5P38	DB9 Female to 2*5-Pin 3.81mm Terminal Block RS422/485 Adapter
AD-DB9F-TB5P35	DB9 Female to 5-pin 3.5mm Terminal Block RS422/485 Adapter for MSC-Series
AD-DB9F-TB5P38	DB9 Female to 5-pin 3.8mm Terminal Block RS422/485 Adapter for STE- & STW- Series
GC-F09F09-N	Mini Gender Changer DB9 F/F Null Modem
GC-F09F09-S	Mini Gender Changer DB9 F/F Straight
GC-F09M09-N	Mini Gender Changer DB9 F/M Null Modem
GC-M09M09-N	Mini Gender Changer DB9 M/M Null Modem
GC-M09M09-NP	Mini Gender Changer DB9 M/M Null Modem w/Power

**Ordering Information - Ethernet Media Converters Accessories**

Name	Description
Mounting Brackets	
FCS-BK	Mounting Bracket for FCS Modules (1 Pair)
FCU-BK	Mounting Bracket for FCU Modules (1 Pair)
Power Adapters	
PA-FCS-EU	Power Adapter for FCS/STM Modules, 12V@ 0.8A, 100-240V (Euro Plug)
PA-FCS-UK	Power Adapter for FCS/STM Modules, 12V@0.8A, 100-240V (UK Plug)
PA-FCS-US	Power Adapter for FCS/STM Modules, 12V @1.0A, 100-240V (US Plug)
PA-FCU1802P	Power Adapter for FCU-1802P Modules, 48V/0.4A
PA-FCU-EU	Power Adapter for FCU Modules, 5V@ 1.6A, 100-240V (Euro Plug)
PA-FCU-UK	Power Adapter for FCU Modules, 5V@ 1.6A, 100-240V (UK Plug)
PA-FCU-US	Power Adapter for FCU Modules, 5V@ 1.6A, 100-240V (US Plug)
Rack Chassis Accessories	
FCU-RACK16S-DC-PWR	DC Power Module For FCU-RACK-16S
FCU-RACK-AC-PWR	AC Power Module For FCU-RACK-16
FCU-RACK-DC-PWR	DC Power Module For FCU-RACK-16
FCM-CHS2-AC-PWR	AC Power Module For FCM-CHS2
FCM-CHS2-DC-PWR	DC Power Module For FCM-CHS2

Ordering Information - Accessories - Power Supplies

Name	Description
DIN-Rail Power Supplies	
Antaira DR-15-12	15 Watt Series - Industrial Single Output DIN Rail Power Supply - 12VDC
Antaira DR-15-15	15 Watt Series - Industrial Single Output DIN Rail Power Supply - 15VDC
Antaira DR-15-24	15 Watt Series - Industrial Single Output DIN Rail Power Supply - 24VDC
Antaira DR-30-12	30 Watt Series - Industrial Single Output DIN Rail Power Supply - 12VDC
Antaira DR-30-15	30 Watt Series - Industrial Single Output DIN Rail Power Supply - 15VDC
Antaira DR-30-24	30 Watt Series - Industrial Single Output DIN Rail Power Supply - 24VDC
Antaira DR-45-5	45 Watt Series - Industrial Single Output DIN Rail Power Supply - 5VDC
Antaira DR-45-12	45 Watt Series - Industrial Single Output DIN Rail Power Supply - 12VDC
Antaira DR-45-15	45 Watt Series - Industrial Single Output DIN Rail Power Supply - 15VDC
Antaira DR-45-24	45 Watt Series - Industrial Single Output DIN Rail Power Supply - 24VDC
Antaira DR-60-5	60 Watt Series - Industrial Single Output DIN Rail Power Supply - 5VDC
Antaira DR-60-12	60 Watt Series - Industrial Single Output DIN Rail Power Supply - 12VDC
Antaira DR-60-15	60 Watt Series - Industrial Single Output DIN Rail Power Supply - 15VDC
Antaira DR-60-24	60 Watt Series - Industrial Single Output DIN Rail Power Supply - 24VDC
Antaira DR-75-12	75 Watt Series - Industrial Single Output DIN Rail Power Supply - 12VDC
Antaira DR-75-24	75 Watt Series - Industrial Single Output DIN Rail Power Supply - 24VDC
Antaira DR-75-48	75 Watt Series - Industrial Single Output DIN Rail Power Supply - 48VDC
Antaira DR-120-12	120 Watt Series - Industrial Single Output DIN Rail Power Supply - 12VDC
Antaira DR-120-24	120 Watt Series - Industrial Single Output DIN Rail Power Supply - 24VDC
Antaira DR-120-48	120 Watt Series - Industrial Single Output DIN Rail Power Supply - 48VDC
Antaira DRP-240-24	240 Watt Series - Industrial Single Output DIN Rail w/ PFC Function Power Supply - 24VDC
Antaira DRP-240-48	240 Watt Series - Industrial Single Output DIN Rail w/ PFC Function Power Supply - 48VDC
Antaira DRP-480-24	480 Watt Series - Industrial Single Output DIN Rail w/ PFC Function Power Supply - 24VDC/20A
Antaira DRP-480-48	480 Watt Series - Industrial Single Output DIN Rail w/ PFC Function Power Supply - 48VDC/10A
Antaira DRP-480S-24	480 Watt Series - Industrial Single Output DIN Rail w/ PFC Function Power Supply - 24VDC
Antaira DRP-480S-48	480 Watt Series - Industrial Single Output DIN Rail w/ PFC Function Power Supply - 48VDC
Antaira MDR-10-5	10 Watt Series - Industrial Single Output Miniature DIN Rail Power Supply - 5VDC
Antaira MDR-10-12	10 Watt Series - Industrial Single Output Miniature DIN Rail Power Supply - 12VDC
Antaira MDR-10-15	10 Watt Series - Industrial Single Output Miniature DIN Rail Power Supply - 15VDC
Antaira MDR-10-24	10 Watt Series - Industrial Single Output Miniature DIN Rail Power Supply - 24VDC
Antaira MDR-20-5	20 Watt Series - Industrial Single Output Miniature DIN Rail Power Supply - 5VDC
Antaira MDR-20-12	20 Watt Series - Industrial Single Output Miniature DIN Rail Power Supply - 12VDC
Antaira MDR-20-15	20 Watt Series - Industrial Single Output Miniature DIN Rail Power Supply - 15VDC
Antaira MDR-20-24	20 Watt Series - Industrial Single Output Miniature DIN Rail Power Supply - 24VDC

Antaira MDR-40-5	40 Watt Series - Industrial Single Output Miniature DIN Rail Power Supply - 5VDC
Antaira MDR-40-12	40 Watt Series - Industrial Single Output Miniature DIN Rail Power Supply - 12VDC
Antaira MDR-40-24	40 Watt Series - Industrial Single Output Miniature DIN Rail Power Supply - 24VDC
Antaira MDR-40-48	40 Watt Series - Industrial Single Output Miniature DIN Rail Power Supply - 48VDC
Antaira MDR-60-5	60 Watt Series - Industrial Single Output Miniature DIN Rail Power Supply - 5VDC
Antaira MDR-60-12	60 Watt Series - Industrial Single Output Miniature DIN Rail Power Supply - 12VDC
Antaira MDR-60-24	60 Watt Series - Industrial Single Output Miniature DIN Rail Power Supply - 24VDC
Antaira MDR-60-48	60 Watt Series - Industrial Single Output Miniature DIN Rail Power Supply - 48VDC
Antaira MDR-100-12	100 Watt Series - Industrial Single Output Miniature DIN Rail Power Supply - 12VDC
Antaira MDR-100-24	100 Watt Series - Industrial Single Output Miniature DIN Rail Power Supply - 24VDC
Antaira MDR-100-48	100 Watt Series - Industrial Single Output Miniature DIN Rail Power Supply - 48VDC
Antaira SDR-120-12	120 Watt Series - Industrial Single Output DIN Rail Power Supply w/ PFC Function - 12VDC
Antaira SDR-120-24	120 Watt Series - Industrial Single Output DIN Rail Power Supply w/ PFC Function - 24VDC
Antaira SDR-120-48	120 Watt Series - Industrial Single Output DIN Rail Power Supply w/ PFC Function - 48VDC
Antaira SDR-240-24	240 Watt Series - Industrial Single Output DIN Rail Power Supply w/ PFC Function - 24VDC
Antaira SDR-240-48	240 Watt Series - Industrial Single Output DIN Rail Power Supply w/ PFC Function - 48VDC
Antaira SDR-480-24	480 Watt Series - Industrial Single Output DIN Rail Power Supply w/ PFC Function - 24VDC
Antaira SDR-480-48	480 Watt Series - Industrial Single Output DIN Rail Power Supply w/ PFC Function - 48VDC
Power Cords	
PWRCORD-EU	Power Cord (Euro Plug)
PWRCORD-UK	Power Cord (UK Plug)
PWRCORD-US	Power Cord (US Plug)

Ordering Information - Accessories - Cables

Name	Description
Fiber Patch Cables	
CBF-LC01LC-MD	LC to LC 1 Meter Multi-Mode Duplex Cable
CBF-LC01LC-SD	LC to LC 1 Meter Single-Mode Duplex Cable
CBF-LC02LC-MD	LC to LC 2 Meter Multi-Mode Duplex Cable
CBF-LC02LC-SD	LC to LC 2 Meter Single-Mode Duplex Cable
CBF-LC03LC-SD	LC to LC 3 Meter Single-Mode Duplex Cable
CBF-LC03LC-SS	LC to LC 3 Meter Single-Mode Simplex Cable
CBF-LC05LC-MD	LC to LC 5 Meter Multi-Mode Duplex Cable
CBF-LC05LC-SD	LC to LC 5 Meter Single-Mode Duplex Cable
CBF-SC01LC-MD	SC to LC 1 Meter Multi-Mode Duplex Cable
CBF-SC01LC-SD	SC to LC 1 Meter Single-Mode Duplex Cable
CBF-SC01LC-SS	SC to LC 1 Meter Single-Mode Simplex Cable
CBF-SC01SC-MD	SC to SC 1 Meter Multi-Mode Duplex Cable
CBF-SC01SC-MS	SC to SC 1 Meter Multi-Mode Simplex Cable
CBF-SC01SC-SD	SC to SC 1 Meter Single-Mode Duplex Cable
CBF-SC01SC-SS	SC to SC 1 Meter Single-Mode Simplex Cable
CBF-SC01ST-MD	SC to ST 1 Meter Multi-Mode Duplex Cable
CBF-SC01ST-SD	SC to ST 1 Meter Single-Mode Duplex Cable
CBF-SC02LC-MD	SC to LC 2 Meter Multi-Mode Duplex Cable
CBF-SC02LC-SD	SC to LC 2 Meter Single-Mode Duplex Cable
CBF-SC02LC-SS	SC to LC 2 Meter Single-Mode Simplex Cable
CBF-SC02SC-MD	SC to SC 2 Meter Multi-Mode Duplex Cable
CBF-SC02SC-MS	SC to SC 2 Meter Multi-Mode Simplex Cable
CBF-SC02SC-SD	SC to SC 2 Meter Single-Mode Duplex Cable
CBF-SC02SC-SS	SC to SC 2 Meter Single-Mode Simplex Cable
CBF-SC02ST-MD	SC to ST 2 Meter Multi-Mode Duplex Cable
CBF-SC02ST-SD	SC to ST 2 Meter Single-Mode Duplex Cable
CBF-SC03LC-MD	SC to LC 3 Meter Multi-Mode Duplex Cable
CBF-SC03LC-SS	SC to LC 3 Meter Single-Mode Simplex Cable
CBF-SC03SC-MD	SC to SC 3 Meter Multi-Mode Duplex Cable
CBF-SC03SC-SD	SC to SC 3 Meter Single-Mode Duplex Cable
CBF-SC03SC-SS	SC to SC 3 Meter Single-Mode Simplex Cable
CBF-SC03ST-MD	SC to ST 3 Meter Multi-Mode Duplex Cable



CBF-SC04SC-MD	SC to SC 4 Meter Multi-Mode Duplex Cable
CBF-SC04SC-SD	SC to SC 4 Meter Single-Mode Duplex Cable
CBF-SC05LC-MD	SC to LC 5 Meter Multi-Mode Duplex Cable
CBF-SC05LC-SD	SC to LC 5 Meter Single-Mode Duplex Cable
CBF-SC05LC-SS	SC to LC 5 Meter Single-Mode Simplex Cable
CBF-SC05SC-MD	SC to SC 5 Meter Multi-Mode Duplex Cable
CBF-SC05SC-MS	SC to SC 5 Meter Multi-Mode Simplex Cable
CBF-SC05SC-SD	SC to SC 5 Meter Single-Mode Duplex Cable
CBF-SC05SC-SS	SC to SC 5 Meter Single-Mode Simplex Cable
CBF-SC05ST-MD	SC to ST 5 Meter Multi-Mode Duplex Cable
CBF-SC05ST-SD	SC to ST 5 Meter Single-Mode Duplex Cable
CBF-SC05ST-SS	SC to ST 5 Meter Single-Mode Simplex Cable
CBF-ST01LC-MD	ST to LC 1 Meter Multi-Mode Duplex Cable
CBF-ST01LC-SD	ST to LC 1 Meter Single-Mode Duplex Cable
CBF-ST01ST-MD	ST to ST 1 Meter Multi-Mode Duplex Cable
CBF-ST01ST-SD	ST to ST 1 Meter Single-Mode Duplex Cable
CBF-ST02LC-MD	ST to LC 2 Meter Multi-Mode Duplex Cable
CBF-ST02ST-MD	ST to ST 2 Meter Multi-Mode Duplex Cable
CBF-ST02ST-SD	ST to ST 2 Meter Single-Mode Duplex Cable
CBF-ST03LC-MD	ST to LC 3 Meter Multi-Mode Duplex Cable
CBF-ST03ST-MD	ST to ST 3 Meter Multi-Mode Duplex Cable
CBF-ST04LC-MD	ST to LC 4 Meter Multi-Mode Duplex Cable
CBF-ST04ST-MD	ST to ST 4 Meter Multi-Mode Duplex Cable
CBF-ST05ST-MD	ST to ST 5 Meter Multi-Mode Duplex Cable
CBF-ST05ST-MS	ST to ST 5 Meter Multi-Mode Simplex Cable
CBF-ST05ST-SD	ST to ST 5 Meter Single-Mode Duplex Cable
SFP+ 10G Cables	
CB-SFP+1M	SFP+ 10GbE Direct Attach Passive Copper Cable, Male to Male, 1 Meter (3.3ft) 30AWG
CB-SFP+2M	SFP+ 10GbE Direct Attach Passive Copper Cable, Male to Male, 2 Meter (6.6ft) 30AWG
CB-SFP+3M	SFP+ 10GbE Direct Attach Passive Copper Cable, Male to Male, 3 Meter (9.8ft) 30AWG
CB-SFP+4M	SFP+ 10GbE Direct Attach Passive Copper Cable, Male to Male, 4 Meters (13.1ft) 28AWG
CB-SFP+5M	SFP+ 10GbE Direct Attach Passive Copper Cable, Male to Male, 5 Meter (16.4ft) 24AWG



Notes

A series of horizontal dashed lines for writing notes.



Quick Conversion Guide

Measurement		
in	mm	cm
1	25.4	2.54
2	50.8	5.08
3	76.2	7.62
4	101.6	10.16
5	127	12.7
6	152.4	15.24
7	177.8	17.78
8	203.2	20.32
9	228.6	22.86
10	254	25.4
11	279.4	27.94
12	304.8	30.48
13	330.2	33.02
14	355.6	35.56
15	381	38.1
16	406.4	40.64
17	431.8	43.18
18	457.2	45.72
19	482.6	48.26
20	508	50.8
21	533.4	53.34
22	558.8	55.88
23	584.2	58.42
24	609.6	60.96

Distance		
ft	yd	m
1	0.333	0.305
2	0.667	0.610
3	1.000	0.914
4	1.333	1.219
5	1.667	1.524
6	2.000	1.829
7	2.333	2.134
8	2.667	2.438
9	3.000	2.743
10	3.333	3.048
11	3.667	3.353
12	4.000	3.658
13	4.333	3.962
14	4.667	4.267
15	5.000	4.572
16	5.333	4.877
17	5.667	5.182
18	6.000	5.486
19	6.333	5.791
20	6.667	6.096
21	7.000	6.401
22	7.333	6.706
23	7.667	7.010
24	8.000	7.315

Distance	
mi	km
1	1.609
2	3.219
3	4.828
4	6.437
5	8.047
6	9.656
7	11.265
8	12.874
9	14.484
10	16.093
11	17.702
12	19.312
13	20.921
14	22.530
15	24.140
16	25.749
17	27.358
18	28.967
19	30.577
20	32.186
21	33.795
22	35.405
23	37.014
24	38.623

Weight	
lb	g
1	453.592
2	907.184
3	1360.776
4	1814.368
5	2267.960
6	2721.552
7	3175.144
8	3628.736
9	4082.328
10	4535.920
11	4989.512
12	5443.104
13	5896.696
14	6350.288
15	6803.880
16	7257.472
17	7711.064
18	8164.656
19	8618.248
20	9071.840
21	9525.432
22	9979.024
23	10432.616
24	10886.208

Temperature	
Celsius	Fahrenheit
100	212
90	194
80	176
70	158
60	140
50	122
40	104
30	86
20	68
10	50
0	32
-10	14
-20	-4
-30	-22
-40	-40

$$^{\circ}\text{F} = [^{\circ}\text{C}] \times 9/5 + 32$$

$$^{\circ}\text{C} = ([^{\circ}\text{F}] - 32) \times 5/9$$

Key

Imperial	Metric
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Fiber Optical Link Loss Budget:

1. Connector Loss: Each connector, $\approx 0.5 - 0.7$ dB loss
2. Splice Loss: Each splice, ≈ 0.2 dB loss

3A. Multi-Mode Cable Length Fiber Loss:

- a). 3 dB loss per km for 850 nm sources.
- b). 1 dB loss per km for 1300 nm sources.

3B. Single-Mode Cable Length Fiber Loss:

- a). 0.5 dB loss per km for 1300 nm sources.
- b). 0.25 dB loss per km for 1550 nm sources.

Equation:

$[(0.5 \text{ dB}) (\# \text{ connectors})] + [(0.2 \text{ dB}) (\# \text{ splices})] + \text{fiber loss on the total length of cable} = \text{dB loss}$

Wireless Power

dBm	Power	dBm	Power
0	1.0 mW	16	40.0 mW
1	1.3 mW	17	50.0 mW
2	1.6 mW	18	63.0 mW
3	2.0 mW	19	79.0 mW
4	2.5 mW	20	100.0 mW
5	3.2 mW	21	126.0 mW
6	4.0 mW	22	158.0 mW
7	5.0 mW	23	200.0 mW
8	6.0 mW	24	250.0 mW
9	8.0 mW	25	316.0 mW
10	10.0 mW	26	398.0 mW
11	13.0 mW	27	500.0 mW
12	16.0 mW	28	630.0 mW
13	20.0 mW	29	800.0 mW
14	25.0 mW	30	1.0 W
15	32.0 mW	31	1.3 W



Antaira stands behind its products and services and has made every effort to ensure all information in this catalog is as accurate as possible. Please note this catalog is intended for informational purposes only and has no legal contract attached. We have the right to update information at any time.

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