



antaira[®]
making connectivity simple...

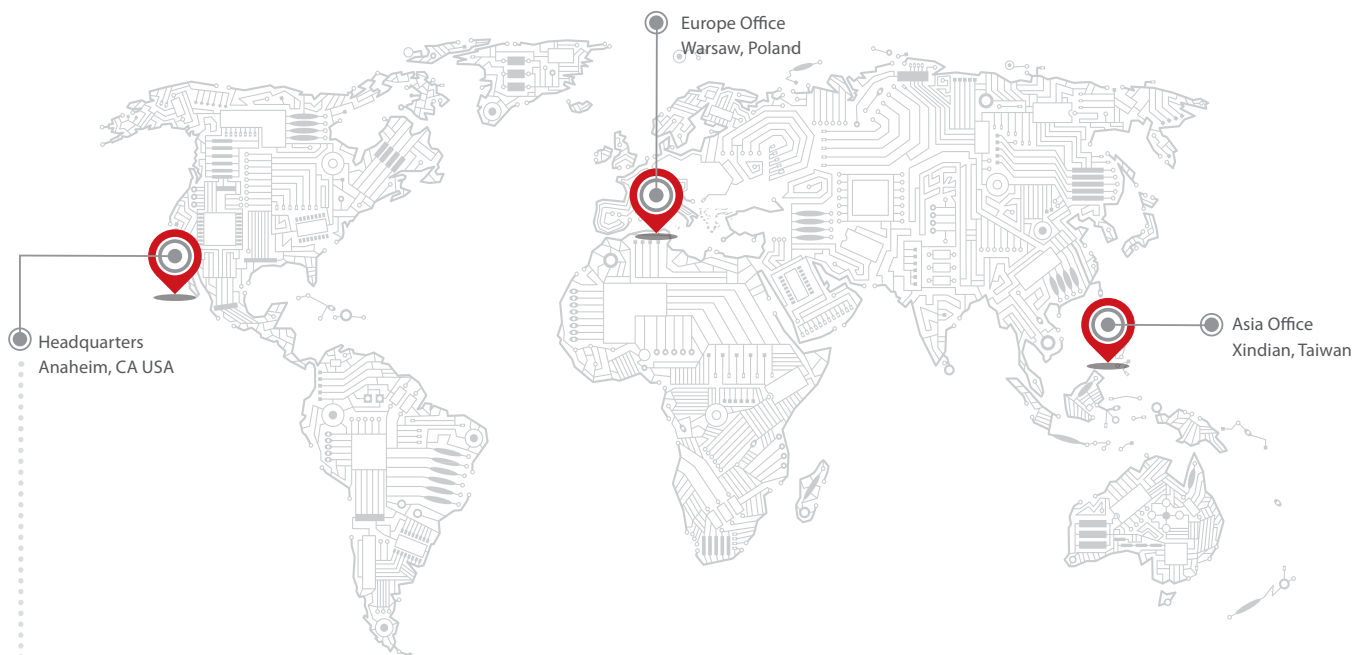
**Industrial Networking
Product Catalog**



About Antaira

Antaira Technologies is a leading global developer and manufacturer 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, industrial wireless devices, Ethernet media converters, and industrial serial communication connectivity. 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.

Antaira Worldwide



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.



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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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Product Showcase

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Application Notes

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Industrial Ethernet

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Media Converters

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Industrial Wireless

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Industrial Serial Connectivity

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SFP Modules

Accessories

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Accessories

OUR COMMITMENT



Product 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.



Customer Service & Tech Support

Antaira's dedicated and competent team takes pride in delivering high-quality and prompt service to our customers. We go one step further when it comes to service. All incoming calls are routed to a live representative who can answer all inquiries quickly, whether it be pre-sales, post-sales or technical services. Antaira's technical support and RMA team have elite industry knowledge to ensure all issues are professionally and thoroughly resolved.



Satisfaction Guarantee

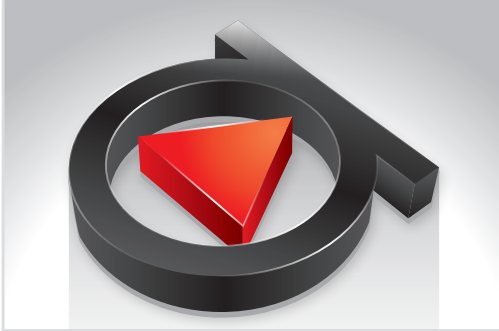
At Antaira, we strive to meet our customers' needs by going above and beyond industry standards. Every sale is backed by our 45-day satisfaction guarantee. If for any reason our customers are unsatisfied with their experience or their expectations were not met, Antaira will provide a full refund within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



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



Automation



Security



Power/Utility



Transportation



Water/Wastewater



Oil & Gas





PRODUCT SHOWCASE



Industrial Ethernet Switches



LNX-C500G Series

Compact 5-Port Industrial Gigabit Unmanaged Ethernet Switch

- ▶ Compact Industrial Grade Design: 26x95x75mm
- ▶ 5*10/100/1000TX RJ45 Ethernet Port w/Auto MDI/MDIX
- ▶ 10Kbytes Jumbo Frame Support
- ▶ Protection: Surge 2KV / ESD 6KV
- ▶ Redundant Power Input: 12 to 48VDC
Pg.29



LNP-1002G-10G-SFP Series

10-Port Industrial 10-Gigabit PoE+ Unmanaged Ethernet Switch



- ▶ 8*10/100/1000TX (PSE: 30W/Port) + 2*10-Gigabit Fiber SFP+ Ports
- ▶ 9.2Kbytes Jumbo Frame Support
- ▶ Protection: Surge 2KV / ESD 6KV
- ▶ Option Models with Dual Dual Power Input: 48 to 55VDC, or 12 to 36VDC (w/Voltage Booster)
Pg. 44



LNP-2602G-SFP Series

26-Port Industrial Rackmount Gigabit PoE+ Unmanaged Ethernet Switch



- ▶ 24*10/100/1000TX (PSE: 30W/Port) + 2*Gigabit Combo Ports (2*100/1000 RJ45 or SFP)
- ▶ 1U 19" Rack mountable Design
- ▶ Protection: Surge 2KV / ESD 6KV
- ▶ Dual Power Input: 48 to 55VDC
Pg. 46



LMP-1002G-SFP-24 Series

10-Port Industrial Gigabit PoE+ Managed Ethernet Switch



- ▶ 8*10/100/1000TX (PSE: 30W/Port), + 2*100/1000 SFP Slots
- ▶ 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. 50



LMX-1204G-SFP Series

12-Port Industrial Gigabit Managed Ethernet Switch



- ▶ 8*10/100/1000TX + 4*100/1000 SFP Slots
- ▶ Network Redundancy: STP/RSTP/MSTP and G.8032 Ring Protection <50ms
- ▶ Network Management: SNMP, QoS, VLAN, and IGMP Support
- ▶ Dual Power Input: 12 to 48VDC
Pg. 37



Product Showcase

Application Notes

Industrial Ethernet

Media Converters

Industrial Wireless

Industrial Serial Connectivity

SFP Modules

Accessories

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 up to 300Mbps; MIMO Antenna
- ▶ Security Encryption WPA/WPA2/WEP/WAP-PSK
- ▶ Supports Access Point, Client, Bridge, and Repeater Modes
- ▶ Management through HTTPS and SSH
Pg. 68



APN-310N Series

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



- ▶ IEEE 802.11a/b/g/n; Link Speed up to 300Mbps; MIMO Antenna
- ▶ Security Encryption WPA/WPA2/WEP/WAP-PSK
- ▶ Selectable Access Point/Client/Bridge/Repeater Mode
- ▶ Management through HTTPS and SSH
- ▶ Supports Watchdog and Auto Reboot
Pg. 68



APR-3100N Series

Industrial 802.11a/b/g/n Wireless AP/VPN Router



- ▶ Supports IEEE 802.11a/b/g/n Link Speed up to 300Mbps
- ▶ Software Selectable Access Point/Client/Bridge/Router Mode
- ▶ Security Encryption WEP/WPA/WPA2/WPA2-PSK/IEEE 802.1x / RADIUS Support
- ▶ Supports VPN Setting (IPsec, Open VPN, PPTP, L2TP), and NAT Setting (Virtual Server, Port Trigger, DMZ, UPnP)
Pg. 70



APN-210N Series

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



- ▶ IEEE 802.11a/b/g/n; Link Speed 150Mbps
- ▶ Security Encryption WPA/WPA2/WEP/WAP-PSK
- ▶ Selectable Access Point/Client/Bridge/Repeater Mode
- ▶ Management through HTTPS and SSH
Pg. 68



APX-3200

Outdoor IP67 IEEE 802.11 b/g/n Wireless Access Point/Client/Bridge/Repeater



- ▶ Reliable Waterproof (IP67) Enclosure Design
- ▶ IEEE 802.11 b/g/n; Link Speed up to 150Mbps
- ▶ Powered Device with IEEE 802.3af Compliant
- ▶ Security Encryption WEP/WPA/WPA2
Pg. 69



Ethernet Media Converters



IMC-C1000-SFP Series

Compact Industrial Gigabit Ethernet-Fiber Media Converter

- ▶ Compact IP30 Industrial Grade with Metal Casing Design
- ▶ Built-in Link Loss Forwarding (LLF) and Link-Fault-Pass-Through (LFP)
- ▶ Jumbo Frame Capability up to 9 Kbytes
- ▶ Wide Operating Temperature Support: STD: -10C to 70C, or EOT: -40C to 75C [Pg. 60](#)



FCU-100 Series

10/100Tx to 100Fx Ethernet Media Converter



- ▶ SC/ST/WDM 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. 62](#)



FCU-3002A-SFP

10/100/1000Tx to 100/1000Fx 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. 64](#)



IMP-C1000-SFP Series

Compact Industrial Gigabit PoE+ Ethernet-Fiber Media Converter



- ▶ Compact IP30 Industrial Grade with Metal Casing Design
- ▶ PowerSource Equipment Support up to 30W Output Power with IEEE 802.3 af/at Compliant
- ▶ Jumbo Frame Support up to 9.6 Kbytes
- ▶ Wide Operating Temperature Support up to -40C to 75C [Pg. 60](#)



LNJ-0200G Series (Preliminary)

Industrial Gigabit PoE+ Injector



- ▶ 1*10/100/1000TX (Data & PSE: 30W), 1*10/100/1000TX (Data)
- ▶ IP30 Metal Case
- ▶ Protection: Surge 2KV / ESD 6KV
- ▶ Redundant Power Input: 48 to 55VDC
- ▶ Wide Operating Temperature: STD: -10C to 70C, or -40C to 75C [Pg. 59](#)



Product Showcase

Application Notes

Industrial Ethernet

Media Converters

Industrial Wireless

Industrial Serial Connectivity

SFP Modules

Accessories

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. 76



MSC-208C-SI Series

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, 10 and Linux
Pg. 80



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 Optical 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. 74



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 100Fx 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.77



UTS-1110A Series

1Port Industrial RS232 Serial-to-USB Cable



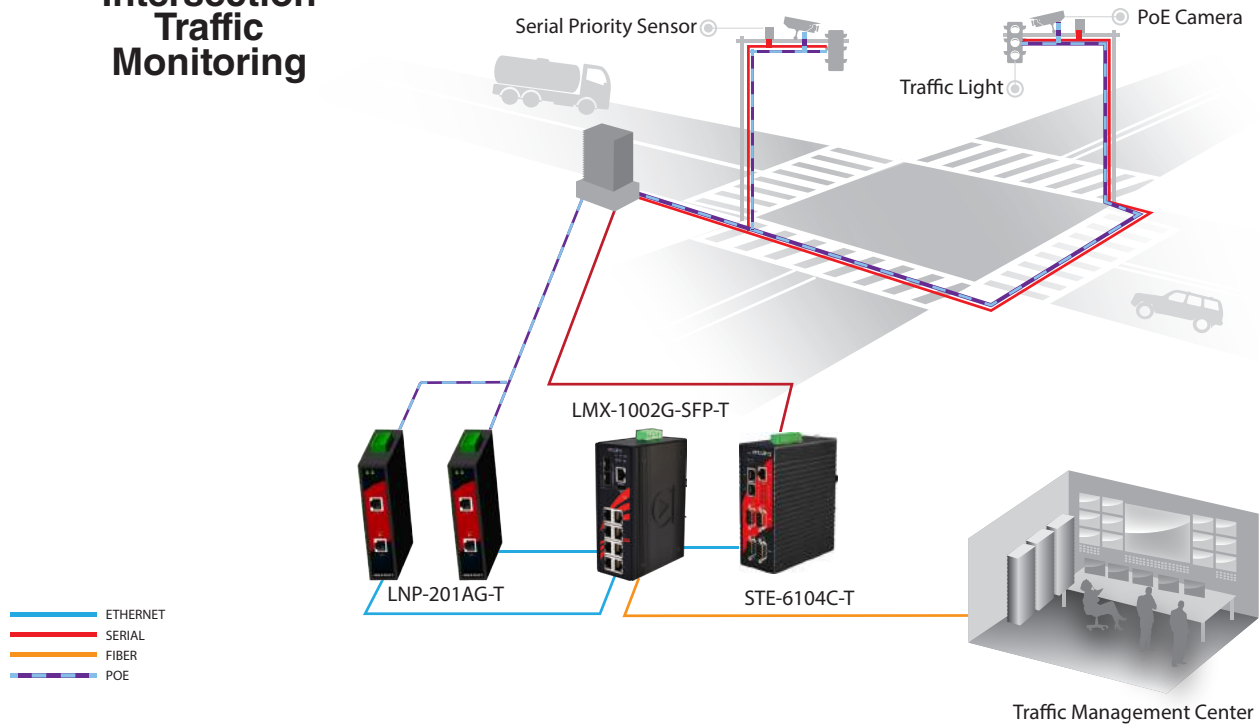
- ▶ Provides 1*RS232 Serial Port over USB Port
- ▶ Supports Baud Rate up to 921.6Kbps
- ▶ LED Indicator for Tx/Rx Data Transmission Identification
- ▶ OS Support: Win98, Me, XP, CE, 2000, 2003, Vista, 7, 8, 10 Linux, Mac OS
Pg. 81



APPLICATION NOTES



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

LMX-1002G-SFP-T: Supports extended operating temperature -40C to 75C for extreme ambient weather environments

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

STE-6104C-T: Provides a Real COM solution for serial legacy to Ethernet, no application software change

- Ability to expand connectivity and network solutions for legacy traffic controllers 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: -40C to 75C
- Pg. 59

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

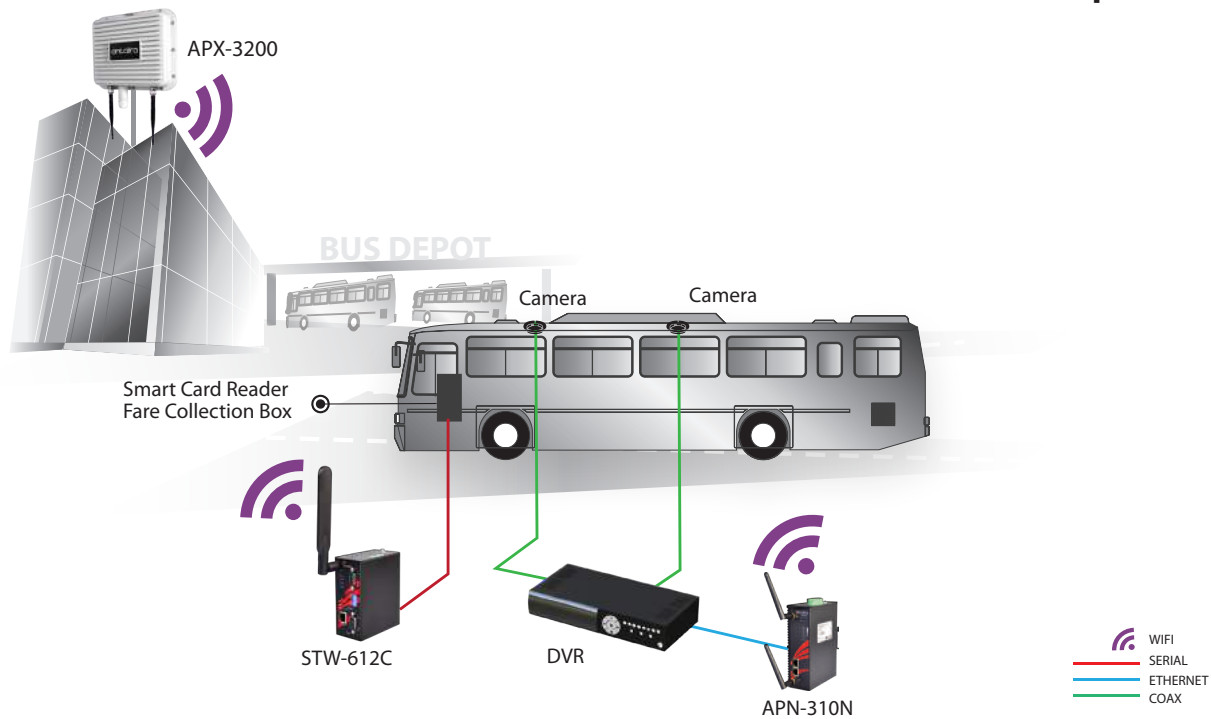


- 4*RS232/422/485 Serial Ports (Software Selectable) + 2*10/100 RJ45 Ports
 - Operation Modes: Virtual COM, TCP/UDP, Tunnel
 - Power Input: 9 to 48VDC
- Pg. 73

LMX-1002G-SFP-T Industrial Managed Ethernet Switch



- 10-Port Full Management Ethernet Switch with 8*10/100/1000Tx + 2*100/1000 SFP Dual Rate SFP Ports
 - Ring Redundancy Function (<50 ms Recovery Time)
 - SNMP, Web Management, RMON Management IP Security
- Pg. 37



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-612C: Serial to wireless device networking solution provides ability for on-board serial smart card readers to download or update passenger fare data to the bus depot

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

APX-3200: Seamlessly collects and updates on-board system data to a bus depot

Key Products

STW-612C
Industrial Serial to IEEE 802.11b/g Wireless Device Server



- 2* RS232/422/485 Software Selectable Serial Ports + 1*10/100 RJ45 Port
- IEEE 802.11 b/g/n Compliant w/ WEP/WPA/WPA2, 802.1x Security
- With Simultaneous Serial, Ethernet, and Wireless 3-Way Communication
Pg. 76

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



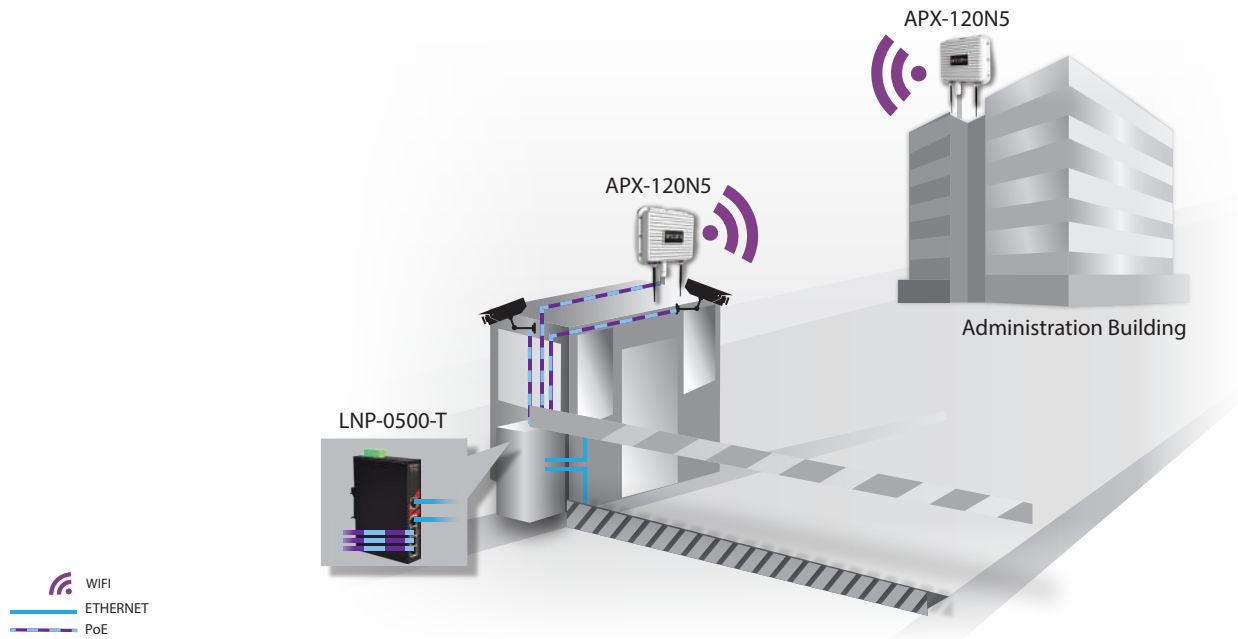
- Reliable Waterproof (IP67) Enclosure
- WEP/WPA/WPA2/IEEE 802.1x Authentication Support
- Spanning Tree and IGMP Snooping Protocol Support
Pg. 69

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. 68

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 a security gate and an administration building
- Access to an existing Ethernet infrastructure
- Hardened wireless equipment with an outdoor IP67 rating and wide operating temperature support

Solution

APX-3200: Provides 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



- 4*10/100Tx (PSE: 30W/Port)
+1*10/100Tx Fast Ethernet
- High Protection: EFT w/ 2KV and ESD w/ 6KV
- Supports Extended Operating Temperature: -40C to 75C
[Pg. 39](#)

APX-3200 Industrial IEEE 802.11 b/g/n Outdoor Wireless AP/Client/Bridge



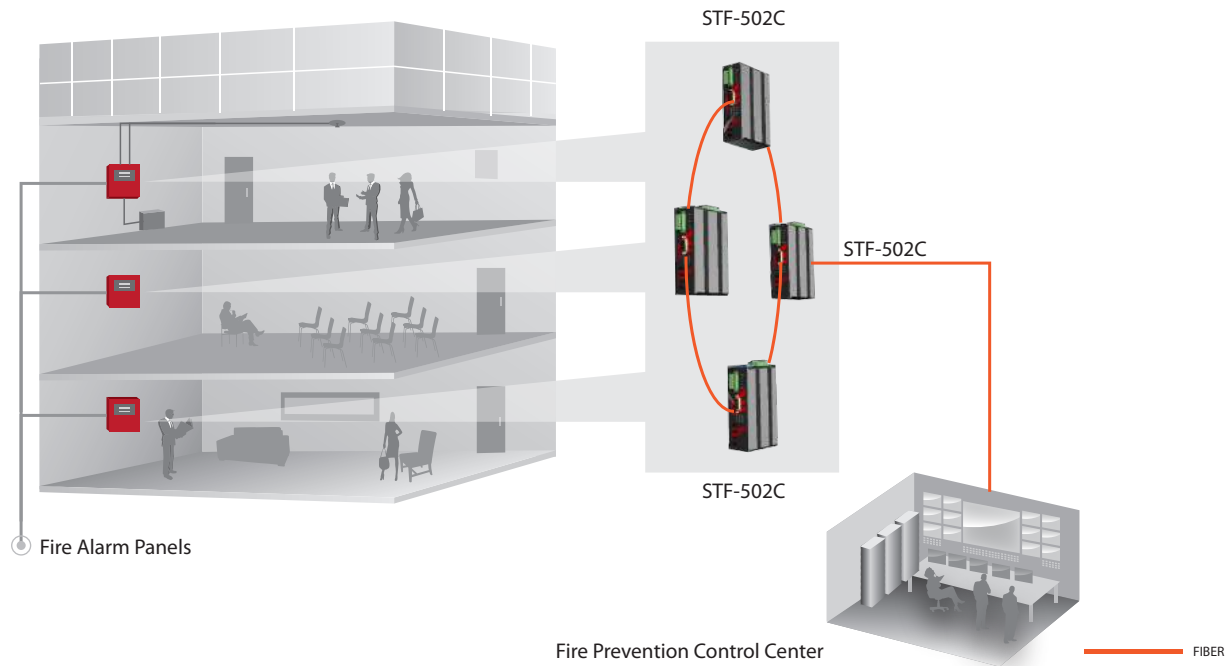
- Reliable Waterproof (IP67) Enclosure
- Configurable Operation Mode: Access Point, Client, Bridge
- Security Encryption WEP/WPA/WPAZ/IEEE 802.1x
[Pg. 69](#)

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. 68](#)

Fire Alarm Panel Monitoring



Application

Allow a fire prevention control center in real-time to remotely monitor 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 a "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
- Secures 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
- 2.5KV Isolation Protection for Serial Signal
- Enhanced Serial Baud Rate up to 1024Kbps
Pg. 77

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



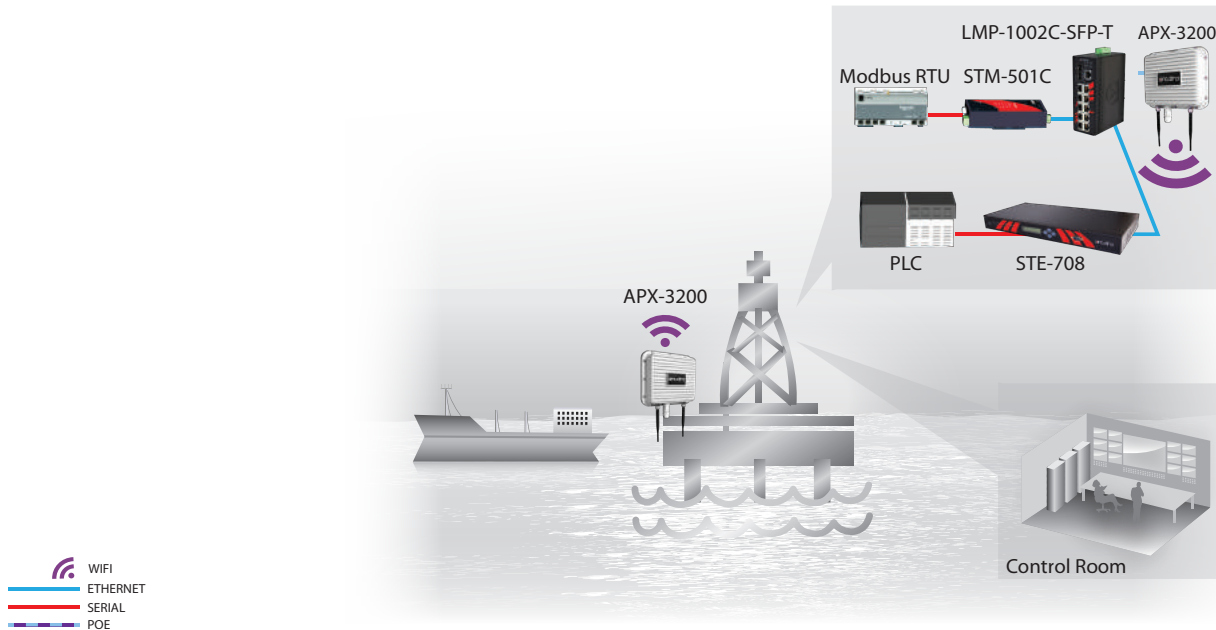
- Fanless and Din-Rail Design for Harsh Industrial Environments
- Supports SC or ST, Multi-Mode 2km or Single-Mode 30km
Pg. 77

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



- Redundant Dual Power Inputs (12 to 48VDC)
- 10 Position Rotary Switch for RS422/485 Pull High/Low Transmission
- Supports Relay Output for Power or Link Failure Warning
Pg. 77

Offshore Platform



Application

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

Application Requirements

- Continuous monitoring of devices with 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 with a pair of bridge/router/access point units

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

STE-708: Provides multiple ports of serial connectivity to bring a PLC & other serial data back to an Ethernet network

LMP-1002C-SFP-T: Provides a redundant network infrastructure solution for all edge networking devices, plus provides a PoE/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. 75

LMP-1002C-SFP-T Industrial PoE/PoE+ Gigabit Managed Ethernet Switch



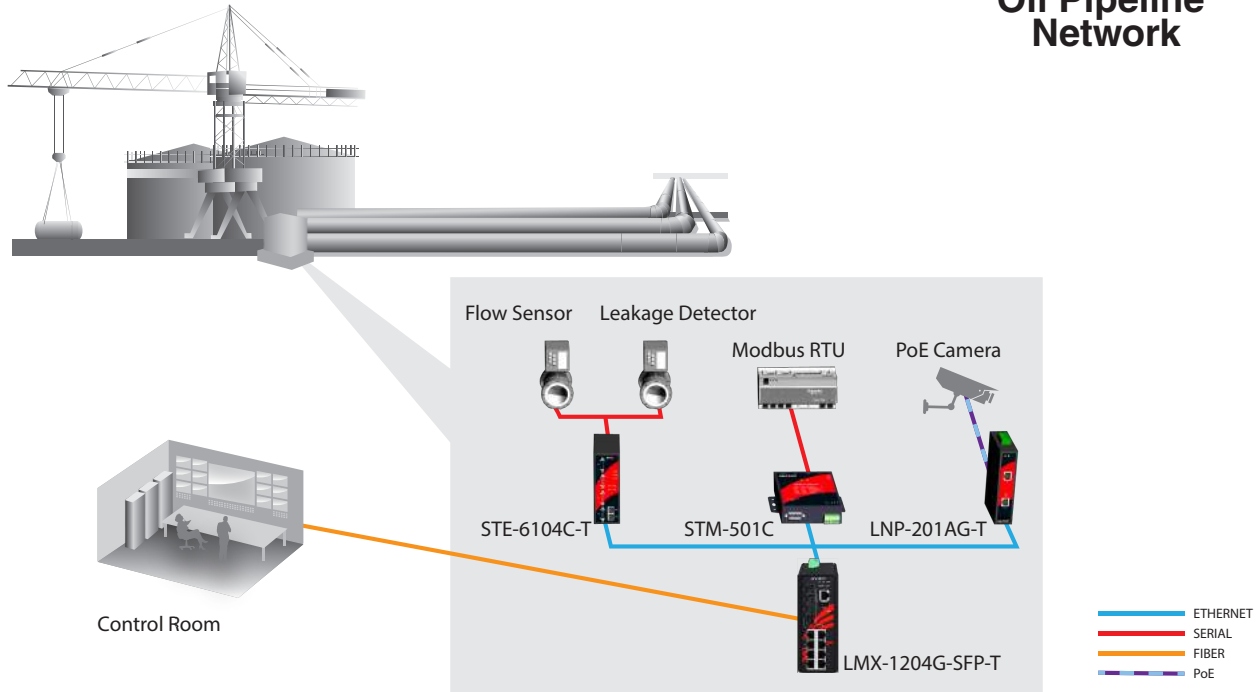
- Ethernet Ring Redundancy Function (<50 ms Recovery Time)
 - 10-Port Full Management Ethernet Switch w/ 8*10/100Tx + 2*100/1000Fx Dual Rate SFP Slots
 - Supports SNMP, Web Management, IGMP, QoS, VLAN
- Pg. 50

STE-708A Industrial Serial to Ethernet Device Server



- Supports Multiple Link Modes w/ TCP Server/Client, UDP, and Virtual COM
 - Supports 8*RS232 Ports
 - 15 KV ESD Protection for Serial Signals
- Pg. 74

Oil Pipeline Network



Application

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

Application Requirements

- Provide the capability to remotely 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 a Modbus RTU/ASCII/485 device to a Modbus TCP network

LNP-201AG-T: Provides remote PoE power injection to power IP surveillance cameras and transmit data

LMX-1204G-SFP-T: Provides a redundant network infrastructure solution for all edge networking devices, plus provides a 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. 73

LMX-1204G-SFP-T Industrial Gigabit Managed Ethernet Switch



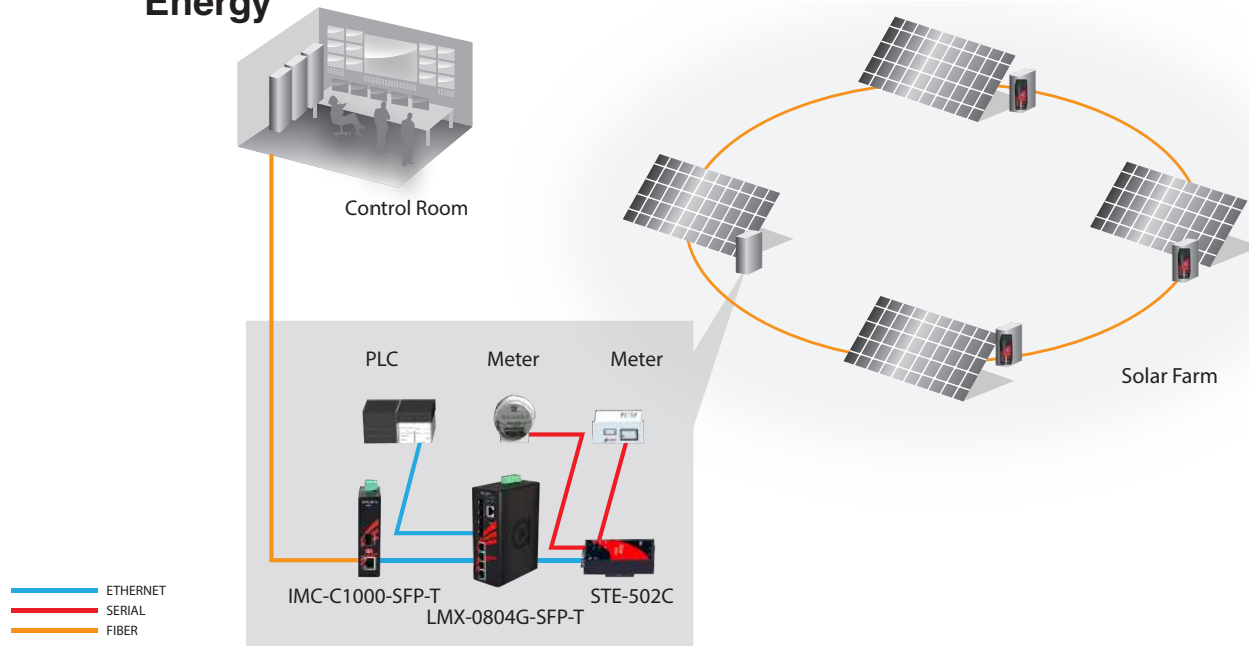
- 8*10/100/1000TX + 4*100/1000 Gigabit Fiber SFP Slots
- Network Redundancy with Market Standard G.8032 ERPS <50ms
- Pre-loaded Full Layer 2 Network Management Software with VLAN, QoS, IGMP, SNMP Support
Pg. 37

LNP-201AG-T Industrial Gigabit PoE+ Injector



- 10/100/1000 PoE Injector
- IEEE 802.3at Compliant
- Power Input 24/48 VDC
Pg. 59

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

LMX-0804G-SFP-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-C1000-SFP-T: Extends solar farm network uplink distance capability with a fiber optic connectivity solution to a remote control center

Key Products

LMX-0804G-SFP Series Industrial Managed Ethernet Switch

- 4*10/100/1000TX + 4*100/1000 Gigabit Fiber SFP Slots
- Network Redundancy with Standard G.8032 ERPS <50ms
- Pre-loaded Full Layer 2 Network Management Software with SNMP, VLAN, QoS, IGMP Support
Pg. 36



IMC-C1000-SFP Compact Industrial Media Converter

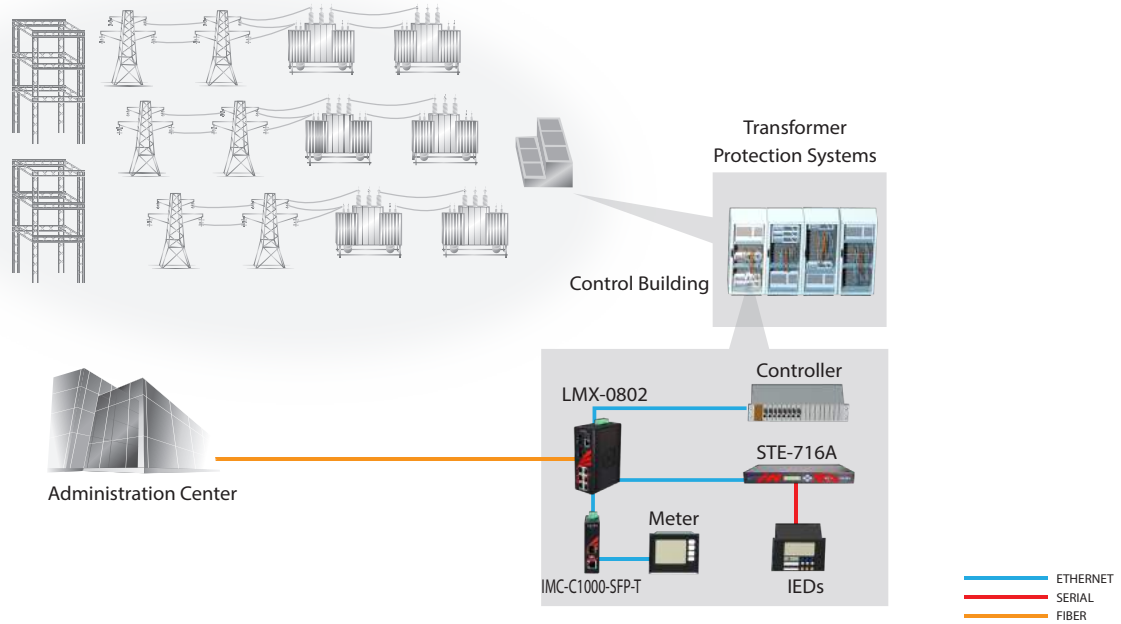
- Compact IP30 DIN-Rail Metal Casing Design
- 1*10/100/1000TX to 1*100/1000 Gigabit Fiber SFP Slot
- Built-in Link-Fault-Pass-Through (LFP) and Link-Loss-Forwarding (LLF)
Pg. 60



STE-502C Serial to Ethernet Device Server

- 15KV 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. 73





Application

Remotely monitor, access, and control 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 and 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-C1000-SFP-T: Provides fiber link connectivity option for Ethernet based equipment from bay level to the network. 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 Series
Industrial Serial to
Ethernet Device Server**



- Supports 16*RS232 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. 74](#)

**LMX-0802 Series
Industrial Managed
Ethernet Switch**



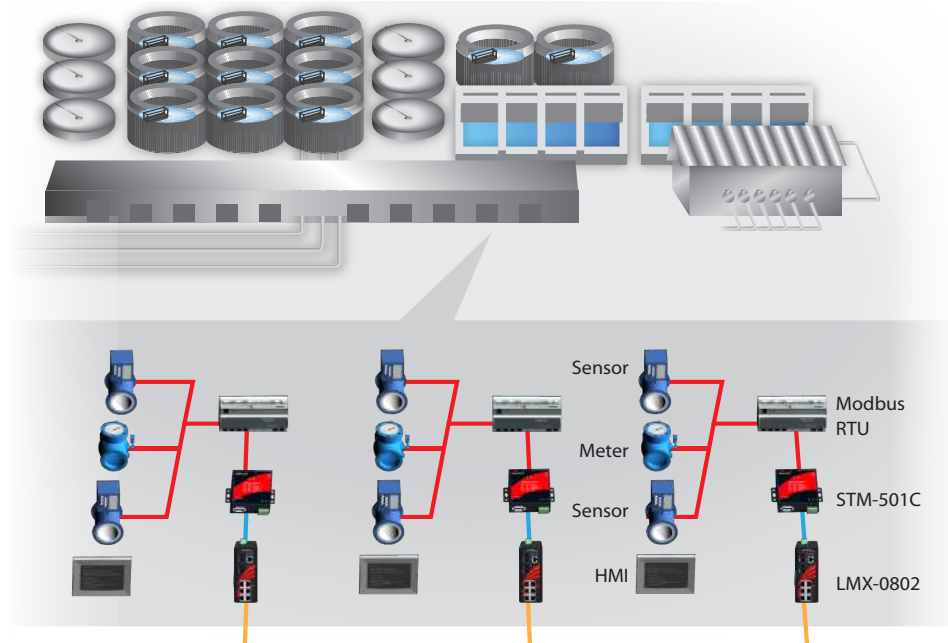
- 8-Port Full Managed Ethernet Switch w/ 6*10/100Tx + 2*100Fx Fiber Ports
- Supports STP/RSTP, and Ring Redundancy Network Function <50ms
- Support SNMP, Web Console, RMON, VLAN, IGMP, QoS, Event Handling
[Pg. 35](#)

**IMC-C1000-SFP
Industrial Ethernet
Media Converter**



- Compact IP30 DIN-Rail Metal Casing Design
- 1*10/100/1000TX to 1*100/1000 Gigabit Fiber SFP Slot
- Built-in Link-Fault-Pass-Through (LFP) and Link-Loss-Forwarding (LLF)
[Pg. 60](#)

Water/Wastewater



Application

Provide a self-healing redundant network while remotely monitoring a water/wastewater treatment plant with a 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

LMX-0802: 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 <50ms

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

LMX-0802 Series Industrial Managed Ethernet Switches



- Full Management Industrial Ethernet Switch w/ 6*10/100Tx + 2*100Fx Fiber Ports
- Supports STP/RSTP, and Ring Redundancy Function (<50ms Recovery Time)
- Supports SNMP, Web Console, RMON, VLAN, IGMP, QoS, Event Handling
Pg. 35

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



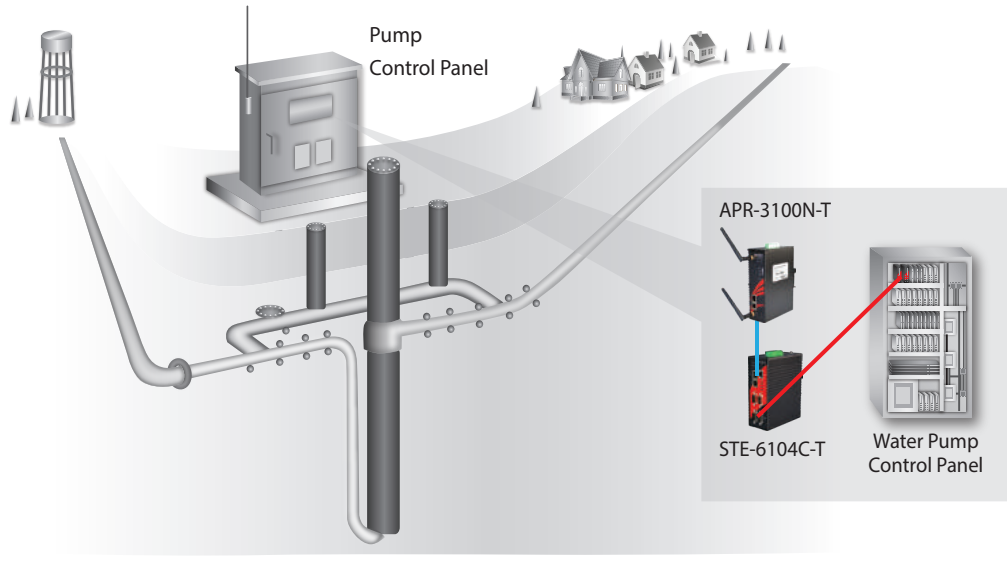
- 1-Port RS232/422/485 Modbus ASCII/RTU Conversion to Modbus TCP
- Supports up to 8 Modbus TCP Master Devices to 31 Modbus RTU/ASCII/485 Slave Devices
- Supports a Modbus RTU/ASCII/485 Master Device to 8 Modbus TCP Slave Devices
Pg. 75

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



- 4-Port RS232/RS422/RS485, Baud Rate up to 921Kbps
- Supports DUAL LAN (10/100Tx) Ports for Network or Data Redundancy Solutions
- Operation Modes: Virtual COM, TCP/UDP Server/Client, Tunneling
Pg. 73

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
- Ability to adapt a cellular wireless network to overcome long-distance concerns
- 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-3100N-T: Industrial wireless router supports VPN tunneling for an individual network channel to an enterprise network through an Ethernet or wireless connection

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

Key Products

APR-3100N-T Industrial Wireless Router



- 2*10/100TX and IEEE802.11a/b/g/n Wireless Compliant
- Encryption Security w/WEP, WPA, WPA2, 802.1x, & RADIUS Support
- Wireless Security: ESSID Broadcast Disable, Virtual Access Points, and MAC Address Filtering [Pg. 70](#)

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



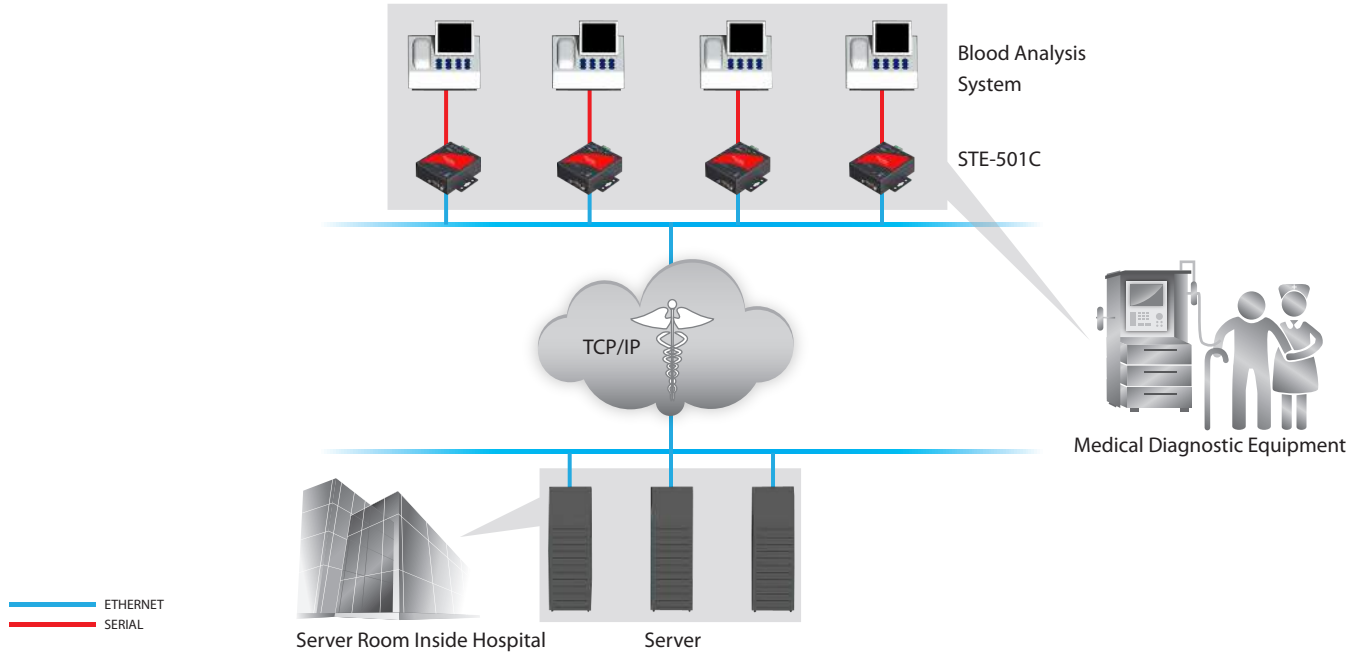
- 4-Port RS232/RS422/RS485, Baud Rate up to 921Kbps
- Operation Modes: Virtual COM, TCP/UDP Server/Client, Tunneling
- Built-in Web Server/Serial Console/Telnet/Windows-Based Utility [Pg. 73](#)

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 to 36VDC [Pg. 39](#)

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. 73



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

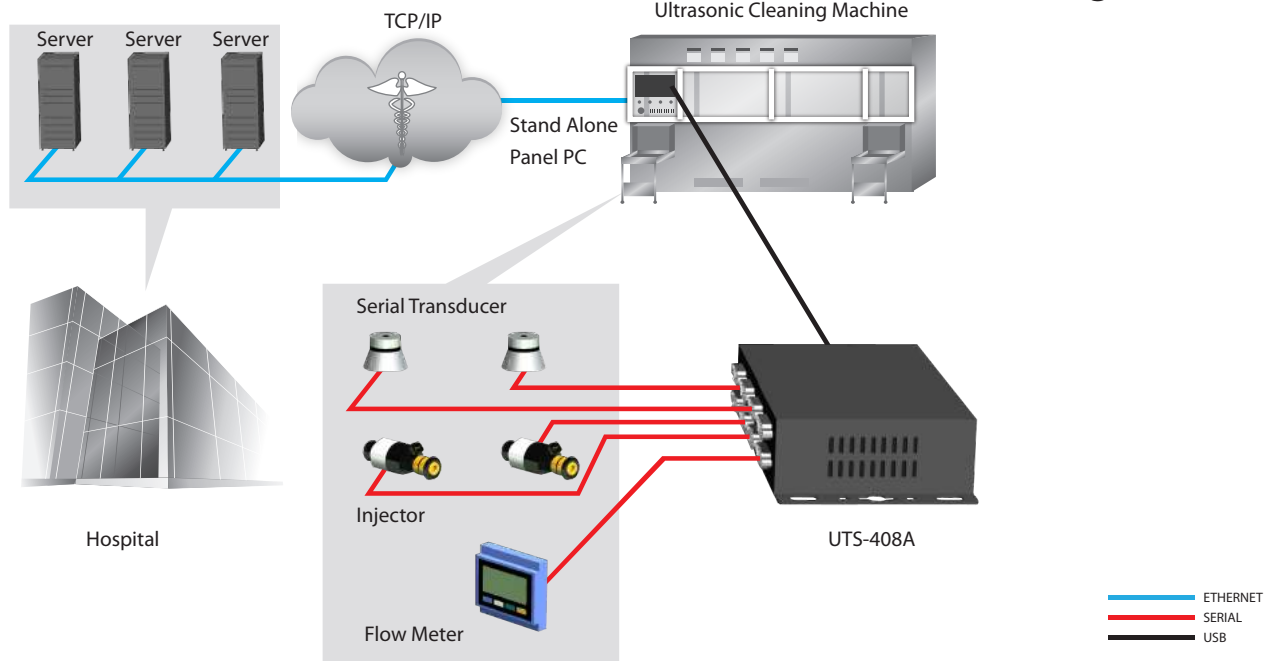
- Provides 8*RS232 Serial Ports over USB Port
- Baud Rate from 300bps to 921.6Kbps
- Supports Unique USB Port Locking Feature to Ensure Connection
Pg. 82



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. 73

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 port 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 300bps to 921.6Kbps
 - Supports USB Port Locking Feature to Ensure Connection
- Pg. 82

UTS-416AK Industrial 16-Port RS232 to USB 2.0 High Speed Converter



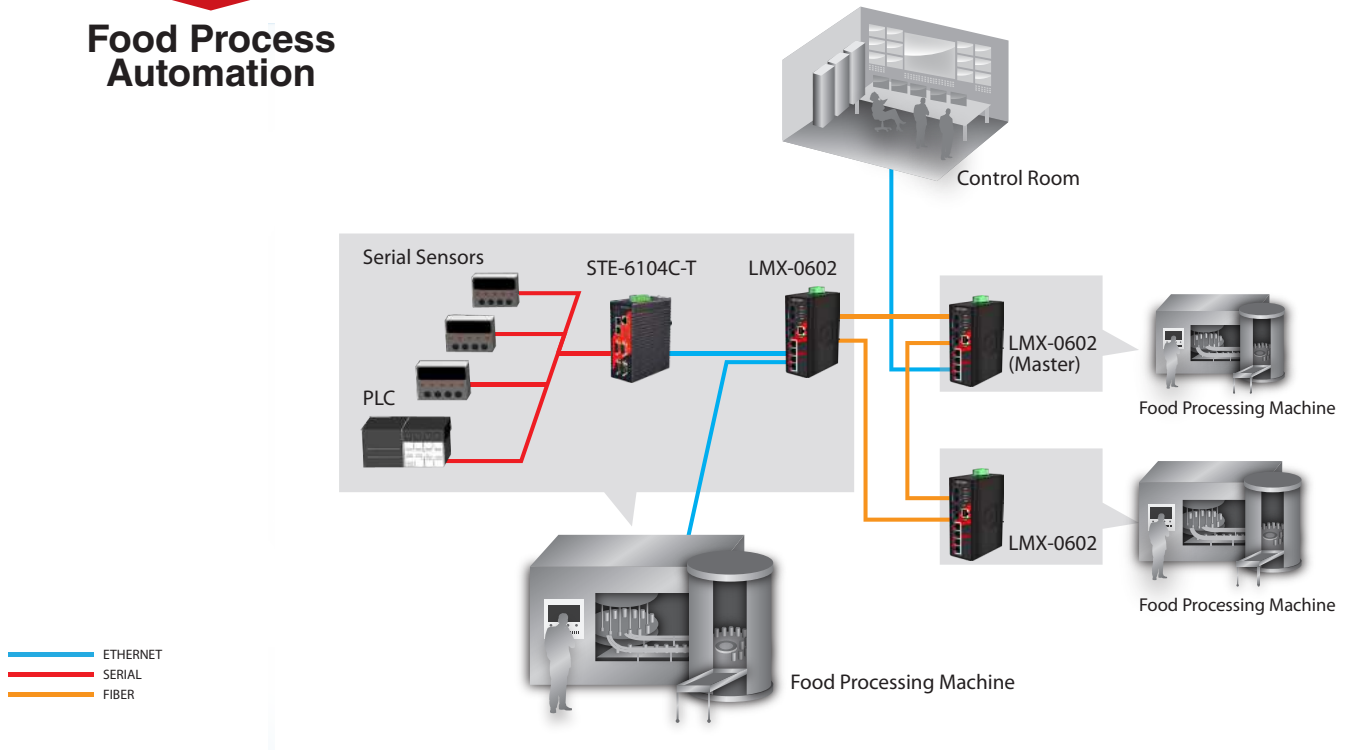
- Supports 1*USB 2.0 to 16*RS232 Serial Ports
 - Baud Rate up to 921.6 Kbps
 - Supports USB Port Locking Feature to Ensure Connection
- Pg. 82

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 Cables
- Pg. 80

Food Process Automation



Application

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

Application Requirements

- Efficient and accurate control of production processes in a large scale factory
- A reliable Ethernet network that allows real-time data transmission within a food processing production line with zero network downtime
- 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

LMX-0602: Industrial managed Ethernet switches allow factory floor equipment to be networked to transmit data back to the control room to fulfill the long-haul data transmission requirements of a large scale factory

STE-6104C-T: Provides multiple serial port connectivity solutions to network the machine sensors and PLCs

Key Products

LMX-0602 Series Industrial Managed Ethernet Switches



- 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. 34

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



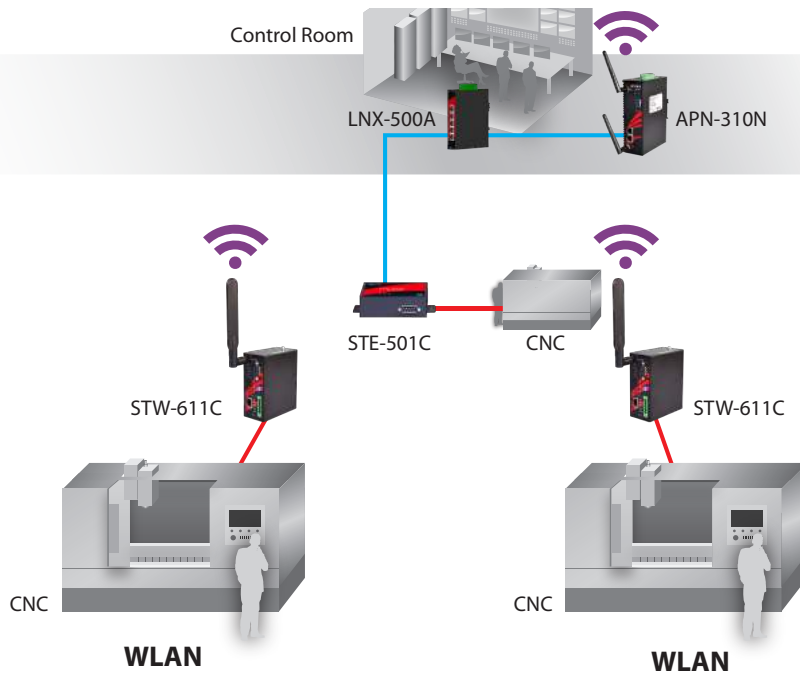
- 4*RS232/422/485 Serial (Software Selectable) Ports
 - Supports DUAL LAN (10/100Tx) Ports for Network or Data Redundancy Solutions
 - Operation Modes: Virtual COM, TCP Server, TCP Client Mode, UDP
- Pg. 73

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 1024Kbps
- Pg. 77

CNC Shop Floor

**Application**

Remotely manage multiple CNC machines on a factory floor

Application Requirements

- Ability to seamlessly and reliably transmit data across a factory floor
- Quick and flexible expansion

Solution

STE-501C and STW-611C: Provides a serial to Ethernet solution for a hardwiring or wireless connectivity option linking different CNC machines with 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 with 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. 68](#)



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. 73](#)



STW-611C
Industrial Serial to
IEEE 802.11b/g/n Wireless
Device Server

- 1* RS232/422/485 Software Selectable Serial Ports + 1*10/100 RJ45 Port
- IEEE 802.11 b/g/n Compliant w/ WEP/WPA/WPA2, 802.1x Security
- With Simultaneous Serial, Ethernet, and Wireless 3-Way Communication

[Pg. 76](#)



Product Selection Guide

INDUSTRIAL ETHERNET



Industrial 10/100 Unmanaged Ethernet Switches



Model Names	LNX-500A Series	LNX-C500 Series	LNX-0500-M12-67 Series	LNX-0501 Series
Specifications				
Total Port Count	5-Port	5-Port	5-Port	5-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
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 Port 148,800pps for Fast Ethernet Port	14,880pps for Ethernet 148,800pps for Fast Ethernet	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	-	9.6Kbytes	-	-
MAC Table Size	2K	8K	8K	2K
Interface				
Ethernet Port	5*10/100Tx Auto MDI/MDI-X Connection	5*10/100Tx Auto MDI/MDI-X Connection	5*10/100Tx (M12-4-Pole A-Coded)	4*10/100Tx Auto MDI/MDI-X Connection
Fiber Port	-	-	-	(SC/ST) 1*100Fx (Multi-Mode 2km / Single-Mode 30km)
Wavelength	-	-	-	1310nm
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	4,000 VDC for Ethernet	6,000 VDC for Ethernet	6,000 VDC for Ethernet	6,000 VDC for Ethernet
Power Requirements				
Input Voltage	12 to 48VDC, Redundant Input	12 to 48VDC, Redundant Input	12 to 48VDC, Redundant Input (M12)	12 to 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	2.93W	5W	5W	6.5W
Mechanical Characteristics				
Housing	Metal, IP30 Protection	Metal, IP30 Protection	Metal, IP30 Protection	Metal, IP30 Protection
Dimensions	30 x 140 x 95 mm	26 x 95 x 75 mm	17 x 95 x 36 mm	30 x 142 x 99 mm
Weight	1.0 lb.	1.0 lb.	5.0 lbs.	1.1 lbs.
Mounting	DIN-Rail & Wall Mounting	DIN-Rail & Wall Mounting	DIN-Rail & Wall Mounting	DIN-Rail & Wall Mounting
Environmental Limits				
Operating Temperature	STD: -10C to 70C EOT: -40C to 80C	STD: -10C to 70C EOT: -40C to 75C	STD: -10C to 70C EOT: -40C to 80C	STD: -10C to 70C EOT: -40C to 75C
Storage Temperature	-40C to 85C	-40C to 85C	-40C to 85C	-40C 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-61010-1, 2-201 (Pending)	FCC, CE, UL-61010-1, 2-201 (Pending)	FCC, CE, UL 508
Warranty	5 Years	5 Years	5 Years	5 Years

Product Showcase

Application Notes

Industrial Ethernet

Media Converters

Industrial Wireless

Industrial Serial Connectivity

SFP Modules

Accessories

Industrial 10/100 Unmanaged Ethernet Switches



Model Names	LNX-0602 Series	LNX-800A Series	LNX-0800-M12-67 Series
Specifications			
Total Port Count	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
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 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	8K
Interface			
Ethernet Port	4*10/100Tx Auto MDI/MDI-X Connection	8*10/100Tx Auto MDI/MDI-X Connection	8*10/100Tx (M12-4-Pole A-Coded)
Fiber Port	(SC/ST) 2*100Fx (Multi-Mode 2km / Single-Mode 30km)	-	-
Wavelength	1310nm	-	-
Protection			
EFT Protection	2,000 VDC for Power Line	3,000 VDC for Power Line	2,000 VDC for Power Line
ESD Protection	6,000 VDC for Ethernet	4,000 VDC for Ethernet	6,000 VDC for Ethernet
Power Requirements			
Input Voltage	12 to 48VDC, Redundant Input	12 to 48VDC, Redundant Input	12 to 48VDC, Redundant Input (M12)
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	7.5W	2.93W	6.5W
Mechanical Characteristics			
Housing	Metal, IP30 Protection	Metal, IP30 Protection	Metal, IP30 Protection
Dimensions	30 x 142 x 99 mm	30 x 142 x 99 mm	45 x 95 x 36 mm
Weight	1.1 lbs.	1.0 lb.	5.0 lbs.
Mounting	DIN-Rail & Wall Mounting	DIN-Rail & Wall Mounting	DIN-Rail & Wall Mounting
Environmental Limits			
Operating Temperature	STD: -10C to 70C EOT: -40C to 75C	STD: -10C to 70C EOT: -40C to 80C	STD: -10C to 70C EOT: -40C to 80C
Storage Temperature	-40C to 85C	-40C to 85C	-40C 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, C1D2	FCC, CE, UL-61010-1, 2-201 (Pending)
Warranty	5 Years	5 Years	5 Years



Industrial Gigabit 10/100/1000 Unmanaged Ethernet Switches



Model Names	LNX-500AG Series	LNX-C500G Series	LNX-0501G-SFP Series	LNX-0601G-SFP Series
Specifications				
Total Port Count	5-Port	5-Port	5-Port	6-Port
Technology				
Standards	IEEE 802.3, 802.3u, 802.3ab, 802.3x	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
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	10Kbytes	9.6Kbytes	9.6Kbytes
MAC Table Size	8K	8K	8K	8K
Interface				
Ethernet Port	5*10/100/1000Tx Auto MDI/MDI-X Connection	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
Fiber Port	-	-	1*100/1000 SFP Slot	1*100/1000 SFP Slot
Wavelength	-	-	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
Power Requirements				
Input Voltage	12 to 48VDC, Redundant Input	12 to 48VDC, Redundant Input	12 to 48VDC, Redundant Input	12 to 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	5W	5W	5W
Mechanical Characteristics				
Housing	Metal, IP30 Protection	Metal, IP30 Protection	Metal, IP30 Protection	Metal, IP30 Protection
Dimensions	30 x 140 x 95 mm	26 x 95 x 75 mm	30 x 142 x 99 mm	30 x 142 x 99 mm
Weight	1.0 lb.	1.0 lb.	1.0 lb.	1.0 lb.
Mounting	DIN-Rail & Wall Mounting	DIN-Rail & Wall Mounting	DIN-Rail & Wall Mounting	DIN-Rail & Wall Mounting
Environmental Limits				
Operating Temperature	STD: -10C to 70C EOT: -40C to 80C	STD: -10C to 70C EOT: -40C to 75C	STD: -10C to 70C EOT: -40C to 75C	STD: -10C to 70C EOT: -40C to 75C
Storage Temperature	-40C to 85C	-40C to 85C	-40C to 85C	-40C 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-61010-1, 2-201 (Pending)	FCC, CE, UL-61010-1, 2-201	FCC, CE, UL-61010-1, 2-201
Warranty	5 Years	5 Years	5 Years	5 Years

Product Showcase

Application Notes

Industrial Ethernet

Media Converters

Industrial Wireless

Industrial Serial Connectivity

SFP Modules

Accessories

Industrial Gigabit 10/100/1000 Unmanaged Ethernet Switches



Model Names	LNX-0702C-SFP Series	LNX-0702G-SFP Series	LNX-800AG Series	LNX-0802C-SFP Series
Specifications				
Total Port Count	7-Port	7-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, 802.3x	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	9.6Kbytes
MAC Table Size	8K	8K	8K	8K
Interface				
Ethernet Port	5*10/100Tx Auto MDI/MDI-X Connection	5*10/100/1000Tx Auto MDI/MDI-X Connection	8*10/100/1000Tx Auto MDI/MDI-X Connection	6*10/100Tx Auto MDI/MDI-X Connection
Fiber Port	2*100/1000 SFP Slots	2*100/1000 SFP Slots	-	2*Gigabit Combo Ports (2*10/100/1000Tx or 2*100/1000 SFP Slots)
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	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
Power Requirements				
Input Voltage	12 to 48VDC, Redundant Input	12 to 48VDC, Redundant Input	12 to 48VDC, Redundant Input	12 to 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	9W	9W	5W	9W
Mechanical Characteristics				
Housing	Metal, IP30 Protection	Metal, IP30 Protection	Metal, IP30 Protection	Metal, IP30 Protection
Dimensions	30 x 142 x 99 mm	30 x 142 x 99 mm	30 x 140 x 95 mm	46 x 142 x 99 mm
Weight	1.1 lbs.	1.1 lbs.	1.0 lb.	2.5 lbs.
Mounting	DIN-Rail & Wall Mounting	DIN-Rail & Wall Mounting	DIN-Rail & Wall Mounting	DIN-Rail & Wall Mounting
Environmental Limits				
Operating Temperature	STD: -10C to 70C EOT: -40C to 75C	STD: -10C to 70C EOT: -40C to 75C	STD: -10C to 70C EOT: -40C to 75C	STD: -10C to 70C EOT: -40C to 75C
Storage Temperature	-40C to 85C	-40C to 85C	-40C to 85C	-40C 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-61010-1, 2-201	FCC, CE, UL-61010-1, 2-201	FCC, CE, UL, C1D2	FCC, CE, UL-61010-1, 2-201
Warranty	5 Years	5 Years	5 Years	5 Years



Industrial Gigabit 10/100/1000 Unmanaged Ethernet Switches



Model Names	LNX-1002C-SFP Series	LNX-1002G-SFP Series	LNX-1002G-10G-SFP	LNX-1202G-10G-SFP
Specifications				
Total Port Count	10-Port	10-Port	10-Port	12-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, 802.3ae	IEEE 802.3, 802.3u, 802.3ab, 802.3z, 802.3x, 802.3ae
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 14,880,000pps for 10 Gigabit Ethernet	14,880pps for Ethernet 148,800pps for Fast Ethernet 1,488,000pps for Gigabit Ethernet 14,880,000pps for 10 Gigabit Ethernet
Jumbo Frame Support	9.6Kbytes	9.6Kbytes	9.2Kbytes	9.2Kbytes
MAC Table Size	8K	8K	16K	16K
Interface				
Ethernet Port	8*10/100Tx Auto MDI/MDI-X Connection	8*10/100/1000Tx Auto MDI/MDI-X Connection	8*10/100/1000Tx Auto MDI/MDI-X Connection	8*10/100/1000Tx Auto MDI/MDI-X Connection
Fiber Port	2*Gigabit Combo Ports (2*10/100/1000Tx or 2*100/1000 SFP Slots)	2*100/1000 SFP Slots	2*10G SFP+ Slots	2*10G SFP+ Slots
Wavelength	Refer to SFP Module	Refer to SFP Module	Refer to SFP+ Module	Refer to SFP+ Module
Protection				
ESD 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
Power Requirements				
Input Voltage	12 to 48VDC, Redundant Input	12 to 48VDC, Redundant Input	12 to 48VDC, Redundant Input	12 to 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	9W	9W	16W	16W
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	2.5 lbs.	2.5 lbs.	3.0 lbs.	3.0 lbs.
Mounting	DIN-Rail & Wall Mounting	DIN-Rail & Wall Mounting	DIN-Rail & Wall Mounting	DIN-Rail & Wall Mounting
Environmental Limits				
Operating Temperature	STD: -10C to 70C EOT: -40C to 75C	STD: -10C to 70C EOT: -40C to 75C	-40C to 60C	-40C to 60C
Storage Temperature	-40C to 85C	-40C to 85C	-40C to 85C	-40C 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-61010-1, 2-201	FCC, CE, UL-61010-1, 2-201	FCC, CE, UL-61010-1, 2-201 (Pending)	FCC, CE, UL-61010-1, 2-201 (Pending)
Warranty	5 Years	5 Years	5 Years	5 Years

Product Showcase

Application Notes

Industrial Ethernet

Media Converters

Industrial Wireless

Industrial Serial Connectivity

SFP Modules

Accessories

Industrial Gigabit 10/100/1000 Unmanaged Ethernet Switches



Model Names	LNX-1202G-SFP	LNX-1204G-SFP Series	LNX-1600G Series	LNX-1604G-SFP Series
Specifications				
Total Port Count	12-Port	12-Port	16-Port	16-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, 802.3x	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	9.6Kbytes
MAC Table Size	8K	8K	8K	8K
Interface				
Ethernet Port	10*10/100/1000Tx Auto MDI/MDI-X Connection	8*10/100/1000Tx Auto MDI/MDI-X Connection	16*10/100/1000Tx Auto MDI/MDI-X Connection	12*10/100/1000Tx Auto MDI/MDI-X Connection
Fiber Port	2*100/1000 SFP Slots	4*100/1000 SFP Slots	-	4*100/1000 SFP Slots
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	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
Power Requirements				
Input Voltage	12 to 48VDC, Redundant Input	12 to 48VDC, Redundant Input	12 to 48VDC, Redundant Input	12 to 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	15W	15W	18W	18W
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	72 x 142 x 99 mm	72 x 142 x 99 mm
Weight	2.5 lbs.	2.5 lbs.	3.0 lbs.	3.0 lbs.
Mounting	DIN-Rail & Wall Mounting	DIN-Rail & Wall Mounting	DIN-Rail & Wall Mounting	DIN-Rail & Wall Mounting
Environmental Limits				
Operating Temperature	STD: -10C to 70C EOT: -40C to 75C	STD: -10C to 70C EOT: -40C to 75C	STD: -10C to 70C EOT: -40C to 75C	STD: -10C to 70C EOT: -40C to 75C
Storage Temperature	-40C to 85C	-40C to 85C	-40C to 85C	-40C 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-61010-1, 2-201	FCC, CE, UL-61010-1, 2-201	FCC, CE, UL-61010-1, 2-201 (Pending)	FCC, CE, UL-61010-1, 2-201 (Pending)
Warranty	5 Years	5 Years	5 Years	5 Years



Industrial Gigabit 10/100/1000 Unmanaged Ethernet Switches



Model Names	LNX-1802G-SFP Series	LNX-2004G-SFP Series	LNX-2602G-SFP Series
Specifications			
Total Port Count	18-Port	20-Port	26-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
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	9.6Kbytes
MAC Table Size	8K	8K	8K
Interface			
Ethernet Port	16*10/100/1000Tx Auto MDI/MDI-X Connection	16*10/100/1000Tx Auto MDI/MDI-X Connection	24*10/100/1000Tx Auto MDI/MDI-X Connection
Fiber Port	2*100/1000 SFP Slots	4*100/1000 SFP Slots	2*Combo Ports (2*RJ45 or 2*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	2,000 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 to 48VDC, Redundant Input	12 to 48VDC, Redundant Input	110/240 VAC
Overload Current Protection	Present	Present	Present
Connection	1 Removable 6-Contact Terminal Block	1 Removable 6-Contact Terminal Block	AC Input
Reverse Polarity Protection	Yes	Yes	N/A
Power Consumption	20W	24W	24W
Mechanical Characteristics			
Housing	Metal, IP30 Protection	Metal, IP30 Protection	Metal, IP40 Protection
Dimensions	72 x 142 x 99 mm	72 x 142 x 99 mm	443.7 x 200 x 44 mm
Weight	3.0 lbs.	3.0 lbs.	6.2 lbs.
Mounting	DIN-Rail & Wall Mounting	DIN-Rail & Wall Mounting	Rack IU
Environmental Limits			
Operating Temperature	STD: -10C to 70C EOT: -40C to 75C	STD: -10C to 70C EOT: -40C to 75C	STD: -10C to 70C EOT: -40C to 75C
Storage Temperature	-40C to 85C	-40C to 85C	-40C 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-61010-1, 2-201 (Pending)	FCC, CE, UL-61010-1, 2-201 (Pending)	FCC, CE, UL-61010-1, 2-201 (Pending)
Warranty	5 Years	5 Years	5 Years

Product Showcase

Application Notes

Industrial Ethernet

Media Converters

Industrial Wireless

Industrial Serial Connectivity

SFP Modules

Accessories

Industrial 10/100 Fast Ethernet Managed Ethernet Switches



Model Names	LMX-0500 Series	LMX-0600 Series	LMX-0602 Series
Specifications			
Total Port Count	5-Port	6-Port	6-Port
Technology			
Standards	IEEE 802.3, 802.3u, 802.3x, 802.1D, 802.1w, 802.1p, 802.1Q, ITU-T G.8032	IEEE 802.3, 802.3u, 802.3x, 802.1D, 802.1w, 802.1p, 802.1Q, ITU-T G.8032	IEEE 802.3, 802.3u, 802.3x, 802.1D, 802.1w, 802.1p, 802.1Q, ITU-T G.8032
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
Industrial Protocol	ModbusTCP	ModbusTCP	ModbusTCP
MAC Table Size	2K	2K	2K
Interface			
Ethernet Port	5*10/100Tx Auto MDI/MDI-X Connection	6*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)
Wavelength	-	-	1310nm (Multi / Single Mode)
Serial Console	1*RS232 (RJ45 Port)	1*RS232 (RJ45 Port)	1*RS232 (RJ45 Port)
Configuration Back Up Port	1 * USB 2.0	1 * USB 2.0	1 * USB 2.0
Network Management & Control			
System Configuration	Web Console, Telnet, CLI	Web Console, Telnet, CLI	Web Console, Telnet, CLI
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, 1 to 4094	Port Based, Tag Based, 1 to 4094	Port Based, Tag Based, 1 to 4094
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
System Warning Email Alert	By Exception through Email	By Exception through Email	By Exception through Email
Power Requirements			
Input Voltage	12 to 48VDC, Redundant Input	12 to 48VDC, Redundant Input	12 to 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	10W	10W	10W
Relay Alarm Contact	1A @ DC24V	1A @ DC24V	1A @ DC24V
Mechanical Characteristics			
Housing	Metal, IP30 Protection	Metal, IP30 Protection	Metal, IP30 Protection
Dimensions	54 x 142 x 99 mm	54 x 142 x 99 mm	54 x 142 x 99 mm
Weight	1.3 lbs.	1.3 lbs.	1.3 lbs.
Mounting	DIN-Rail & Wall Mounting	DIN-Rail & Wall Mounting	DIN-Rail & Wall Mounting
Environmental Limits			
Operating Temperature	STD: -10C to 70C EOT: -40C to 75C	STD: -10C to 70C EOT: -40C to 75C	STD: -10C to 70C EOT: -40C to 75C
Storage Temperature	-40C to 85C	-40C to 85C	-40C 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-61010-1, 2-201 (Pending)	FCC, CE, UL-61010-1, 2-201 (Pending)	FCC, CE, UL-61010-1, 2-201 (Pending)
Warranty	5 Years	5 Years	5 Years



Industrial 10/100 Fast Ethernet Managed Ethernet Switches



Model Names	LMX-0800 Series	LMX-0802 Series
Specifications		
Total Port Count	8-Port	8-Port
Technology		
Standards	IEEE 802.3, 802.3u, 802.3x, 802.1D, 802.1w, 802.1p, 802.1Q, ITU-T G.8032	IEEE 802.3, 802.3u, 802.3x, 802.1D, 802.1w, 802.1p, 802.1Q, 802.3ad,
Protocol	IGMPv1/v2/v3, GVRP, SNMPv1/v2c/v3, DHCP Server/Client, SNMP, RMON, HTTP, Telnet, Syslog, LLDP, IPv6, LACP	IGMPv1/v2, GVRP, SNMPv1/v2c/v3, DHCP Server/Client, TFTP, SNMP, SMTP, RMON, HTTP, Telnet, Syslog, LLDP, IPv6, LACP
Industrial Protocol	ModbusTCP	IGMPv1/v2, GVRP, SNMPv1/v2c/v3, DHCP Server/Client, TFTP, SNMP, SMTP, RMON, HTTP, Telnet, Syslog, LLDP, IPv6, LACP
MAC Table Size	2K	2K
Interface		
Ethernet Port	8*10/100Tx Auto MDI/MDI-X Connection	6*10/100Tx Auto MDI/MDI-X Connection
Fiber Port	-	2*100Fx (Multi-Mode 2km / Single-Mode 30km)
Wavelength	-	1310nm (Multi / Single Mode)
Serial Console	1*RS232 (RJ45 Port)	1*RS232 (RJ45 Port)
Configuration Back Up Port	1 * USB 2.0	1 * USB 2.0
Network Management & Control		
System Configuration	Web Console, Telnet, CLI	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
IEEE 802.1Q VLAN	Port Based, Tag Based, 1 to 4094	Port Based, Tag Based, 1 to 4094
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 and Query Mode. Up to 256 groups
IEEE 802.1X Authentication	RADIUS Support	RADIUS Support
System Warning Email Alert	By Exception through Email	By Exception through Email
Power Requirements		
Input Voltage	12 to 48VDC, Redundant Input	12 to 48VDC, Redundant Input
Connection	1 Removable 6-Contact Terminal Block	1 Removable 6-Contact Terminal Block
Reverse Polarity Protection	Yes	Yes
Power Consumption	15W	15W
Relay Alarm Contact	1A @ DC24V	1A @ DC24V
Mechanical Characteristics		
Housing	Metal, IP30 Protection	Metal, IP30 Protection
Dimensions	54 x 142 x 99 mm	54 x 142 x 99 mm
Weight	2.4 lbs.	2.4 lbs.
Mounting	DIN-Rail & Wall Mounting	DIN-Rail & Wall Mounting
Environmental Limits		
Operating Temperature	STD: -10C to 70C EOT: -40C to 75C	STD: -10C to 70C EOT: -40C to 75C
Storage Temperature	-40C to 85C	-40C 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, UL-61010-1, 2-201 (Pending)	UL-61010-1, 2-201 (Pending)
Warranty	5 Years	5 Years

Product Showcase

Application Notes

Industrial Ethernet

Media Converters

Industrial Wireless

Industrial Serial Connectivity

SFP Modules

Accessories

Industrial Gigabit 10/100/1000 Managed Ethernet Switches



Model Names	LMX-0501G-SFP Series	LMX-0601G-SFP Series	LMX-0800G Series	LMX-0804G-SFP Series	LMX-1002C-SFP Series
Specifications					
Total Port Count	5-Port	6-Port	8-Port	8-Port	10-Port
Technology					
Standards	IEEE 802.3, 802.3u, 802.3ab, 802.3z, 802.3x, 802.1d, 802.1p, 802.1Q, ITU-T G.8032	IEEE 802.3, 802.3u, 802.3ab, 802.3z, 802.3x, 802.1d, 802.1p, 802.1Q, ITU-T G.8032	IEEE 802.3, 802.3u, 802.3ab, 802.3z, 802.3x, 802.1d, 802.1p, 802.1Q, ITU-T G.8032	IEEE 802.3, 802.3u, 802.3ab, 802.3z, 802.3x, 802.1d, 802.1p, 802.1Q, ITU-T G.8032	IEEE 802.3, 802.3u, 802.3ab, 802.3z, 802.3x, 802.1d, 802.1p, 802.1Q, ITU-T G.8032
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	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
Industrial Protocol	Modbus TCP	Modbus TCP	Modbus TCP	Modbus TCP	Modbus TCP
Jumbo Frame Support	9.6Kbytes	9.6Kbytes	9.6Kbytes	9.6Kbytes	-
MAC Table Size	8K	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	8*10/100/1000Tx Auto MDI/MDI-X Connection	4*10/100/1000Tx Auto MDI/MDI-X Connection	8*10/100Tx Auto MDI/MDI-X Connection
Fiber Port	1*100/1000 SFP Slot	1*100/1000 SFP Slot	-	4*100/1000 SFP Slots	2*Gigabit Combo (2*RJ45/SFP)
Wavelength	Refer to SFP Module	Refer to SFP Module	-	Refer to SFP Module	Refer to SFP Module
Serial Console	1*RS232 (RJ45 Port)	1*RS232 (RJ45 Port)	1*RS232 (RJ45 Port)	1*RS232 (RJ45 Port)	1*RS232 (RJ45 Port)
Configuration Back Up Port	1 * USB2.0	1 * USB2.0	1 * USB2.0	1 * USB2.0	1 * USB2.0
Network Management & Control					
System Configuration	Web Console, Telnet, CLI	Web Console, Telnet, CLI	Web Console, Telnet, CLI	Web Console, Telnet, CLI	Web Console, Telnet, CLI
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	STP, RSTP, MSTP G.8032 ERPS Ring Redundancy Recovery <50ms
IEEE 802.1Q VLAN	Port Based, Tag Based, 1 to 4094	Port Based, Tag Based, 1 to 4094	Port Based, Tag Based, 1 to 4094	Port Based, Tag Based, 1 to 4094	Port Based, Tag Based, 1 to 4094
QoS	Provides 4 Priority Queues per Port	Provides 4 Priority Queues per Port	Provides 8 Priority Queues per Port	Provides 8 Priority Queues per Port	Provides 8 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	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	RADIUS Support
System Warning Email Alert	By Exception through Email	By Exception through Email	By Exception through Email	By Exception through Email	By Exception through Email
Power Requirements					
Input Voltage	12 to 48VDC, Redundant Input	12 to 48VDC, Redundant Input	12 to 48VDC, Redundant Input	12 to 48VDC, Redundant Input	12 to 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	1 Removable 6-Contact Terminal Block
Reverse Polarity Protection	Yes	Yes	Yes	Yes	Yes
Power Consumption	10W	10W	15W	15W	15W
Relay Alarm Contact	1A @ DC24V	1A @ DC24V	1A @ DC24V	1A @ DC24V	1A @ DC24V
Mechanical Characteristics					
Housing	Metal, IP30 Protection	Metal, IP30 Protection	Metal, IP30 Protection	Metal, IP30 Protection	Metal, IP30 Protection
Dimensions	54 x 142 x 99 mm	54 x 142 x 99 mm	54 x 142 x 99 mm	54 x 142 x 99 mm	54 x 142 x 99 mm
Weight	2.5 lbs.	2.5 lbs.	2.5 lbs.	2.5 lbs.	2.5 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: -10C to 70C EOT: -40C to 75C	STD: -10C to 70C EOT: -40C to 75C	STD: -10C to 70C EOT: -40C to 75C	STD: -10C to 70C EOT: -40C to 75C	STD: -10C to 70C EOT: -40C to 75C
Storage Temperature	-40C to 85C	-40C to 85C	-40C to 85C	-40C to 85C	-40C 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-61010-1, 2-201(Pending)	FCC, CE, UL-61010-1, 2-201(Pending)	FCC, CE, UL-61010-1, 2-201(Pending)	FCC, CE, UL-61010-1, 2-201(Pending)	FCC, CE, UL-61010-1, 2-201(Pending)
Warranty	5 Years	5 Years	5 Years	5 Years	5 Years



Industrial Gigabit 10/100/1000 Managed Ethernet Switches



Model Names	LMX-1002G-SFP Series	LMX-1202G-SFP Series	LMX-1204G-SFP Series	LMX-1600G Series	LMX-1604G-SFP Series
Specifications					
Total Port Count	10-Port	12-Port	12-Port	16-Port	16-Port
Technology					
Standards	IEEE 802.3, 802.3u, 802.3ab, 802.3z, 802.3x, 802.1d, 802.1p, 802.1Q, ITU-T G.8032	IEEE 802.3, 802.3u, 802.3ab, 802.3z, 802.3x, 802.1d, 802.1p, 802.1Q, ITU-T G.8032	IEEE 802.3, 802.3u, 802.3ab, 802.3z, 802.3x, 802.1d, 802.1p, 802.1Q, ITU-T G.8032	IEEE 802.3, 802.3u, 802.3ab, 802.3z, 802.3x, 802.1d, 802.1p, 802.1Q, ITU-T G.8032	IEEE 802.3, 802.3u, 802.3ab, 802.3z, 802.3x, 802.1d, 802.1p, 802.1Q, ITU-T G.8032
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	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
Industrial Protocol	Modbus TCP	Modbus TCP	Modbus TCP	Modbus TCP	Modbus TCP
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*10/100/1000Tx Auto MDI/MDI-X Connection	10*10/100/1000Tx Auto MDI/MDI-X Connection	8*10/100/1000Tx Auto MDI/MDI-X Connection	16*10/100/1000Tx Auto MDI/MDI-X Connection	12*10/100/1000Tx Auto MDI/MDI-X Connection
Fiber Port	2*100/1000 SFP Slots	2*100/1000 SFP Slots	4*100/1000 SFP Slots	-	4*100/1000 SFP Slots
Wavelength	Refer to SFP Module	Refer to SFP Module	Refer to SFP Module	-	Refer to SFP Module
Serial Console	1*RS232 (RJ45 Port)	1*RS232 (RJ45 Port)	1*RS232 (RJ45 Port)	1*RS232 (RJ45 Port)	1*RS232 (RJ45 Port)
Configuration Back Up Port	1 * USB2.0	1 * USB2.0	1 * USB2.0	1 * USB2.0	1*USB2.0
Network Management & Control					
System Configuration	Web Console, Telnet, CLI	Web Console, Telnet, CLI	Web Console, Telnet, CLI	Web Console, Telnet, CLI	Web Console, Telnet, CLI
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	STP, RSTP, MSTP G.8032 ERPS Ring Redundancy Recovery <50ms
IEEE 802.1Q VLAN	Port Based, Tag Based, 1 to 4094	Port Based, Tag Based, 0 to 4094	Port Based, Tag Based, 1 to 4094	Port Based, Tag Based, 0 to 4094	Port Based, Tag Based, 0 to 4094
QoS	Provides 8 Priority Queues per Port	Provides 8 Priority Queues per Port	Provides 8 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	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	RADIUS Support
System Warning Email Alert	By Exception through Email	By Exception through Email	By Exception through Email	By Exception through Email	By Exception through Email
Power Requirements					
Input Voltage	12 to 48VDC, Redundant Input	12 to 48VDC, Redundant Input	12 to 48VDC, Redundant Input	12 to 48VDC, Redundant Input	12 to 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	1 Removable 6-Contact Terminal Block
Reverse Polarity Protection	Yes	Yes	Yes	Yes	Yes
Power Consumption	15W	15W	15W	20W	20W
Relay Alarm Contact	1A @ DC24V	1A @ DC24V	1A @ DC24V	1A @ DC24V	1A @ DC24V
Mechanical Characteristics					
Housing	Metal, IP30 Protection	Metal, IP30 Protection	Metal, IP30 Protection	Metal, IP30 Protection	Metal, IP30 Protection
Dimensions	54 x 142 x 99 mm	54 x 142 x 99 mm	54 x 142 x 99 mm	67 x 142 x 99 mm	72 x 142 x 99 mm
Weight	2.5 lbs.	2.5 lbs.	2.5 lbs.	3.0 lbs.	3.0 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: -10C to 70C EOT: -40C to 75C	STD: -10C to 70C EOT: -40C to 75C	STD: -10C to 70C EOT: -40C to 75C	STD: -10C to 70C EOT: -40C to 75C	STD: -10C to 70C EOT: -40C to 75C
Storage Temperature	-40C to 85C	-40C to 85C	-40C to 85C	-40C to 85C	-40C 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-61010-1, 2-201(Pending)	FCC, CE, UL-61010-1, 2-201(Pending)	FCC, CE, UL-61010-1, 2-201(Pending)	FCC, CE, UL-61010-1, 2-201(Pending)	FCC, CE, UL-61010-2-201(Pending)
Warranty	5 Years	5 Years	5 Years	5 Years	5 Years

Product Showcase

Application Notes

Industrial Ethernet

Media Converters

Industrial Wireless

Industrial Serial Connectivity

SFP Modules

Accessories

Industrial Gigabit 10/100/1000 Managed Ethernet Switches



Model Names	LMX-1802G-SFP Series	LMX-2004G-SFP Series	LNX-2012GN-SFP Series
Specifications			
Total Port Count	18-Port	20-Port	20-Port
Technology			
Standards	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, 802.1d, 802.1p, 802.1Q, 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,
Protocol	IGMPv1/v2, GVRP, SNMPv1/v2c/v3, DHCP Server/Client, TFTP, SNMP, SMTP, HTTP, Telnet, Syslog, LLDP, 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
Industrial Protocol	-	Modbus TCP	-
Jumbo Frame Support	-	9.6Kbytes	9.6Kbytes
MAC Table Size	8K	8K	8K
Interface			
Ethernet Port	16*10/100Tx Auto MDI/MDI-X Connection	16*10/100/1000Tx Auto MDI/MDI-X Connection	8*10/100/1000Tx Auto MDI/MDI-X Connection
Fiber Port	2*100/1000 SFP Slots	4*100/1000 SFP Slots	12*100/1000 SFP Slots
Wavelength	Refer to SFP Module	Refer to SFP Module	Refer to SFP Module
Serial Console	1*RS232 (RJ45 Port)	1*RS232 (RJ45 Port)	1*RS232 (RJ45 Port)
Configuration Back Up Port	1 * USB2.0	1 * USB2.0	-
Network Management & Control			
System Configuration	Web Console; Telnet; CLI Console	Web Console, Telnet, CLI	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; Ring Redundancy Recovery <20ms
IEEE 802.1Q VLAN	Port Based, Tag Based, Groups up to 256	Port Based, Tag Based, 0 to 4094	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,v3 Up to 256 Multicast Groups & Query
IEEE 802.1X Authentication	RADIUS Support	RADIUS Support	RADIUS Support
System Warning Email Alert	By Exception through Email	By Exception through Email	By Exception through Email
Power Requirements			
Input Voltage	12 to 48VDC, Redundant Input	12 to 48VDC, Redundant Input	12 to 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	24W	24W	10W
Relay Alarm Contact	1A @ DC24V	1A @ DC24V	1A @ DC24V
Mechanical Characteristics			
Housing	Metal, IP30 Protection	Metal, IP30 Protection	Metal, IP30 Protection
Dimensions	67 x 142 x 99 mm	67 x 142 x 99 mm	96.4 x 108.5 x 154 mm
Weight	2.2 lbs.	3.0 lbs.	2.7 lbs.
Mounting	DIN-Rail & Wall Mounting	DIN-Rail & Wall Mounting	DIN-Rail & Wall Mounting
Environmental Limits			
Operating Temperature	STD: -10C to 70C EOT: -40C to 75C	STD: -10C to 70C EOT: -40C to 75C	STD: -10C to 70C EOT: -40C to 75C
Storage Temperature	-40C to 85C	-40C to 85C	-40C 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-61010-1, 2-201(Pending)	FCC, CE, UL-61010-1, 2-201(Pending)	FCC, CE, UL-508
Warranty	5 Years	5 Years	5 Years



Industrial 10/100 PoE Unmanaged Ethernet Switches



Model Names	LNP-0500 Series	LNP-0500-24 Series	LNP-0501 Series	LNP-0501-24 Series
Specifications				
Total Port Count	5-Port	5-Port	5-Port	5-Port
Technology				
Standards	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	802.3, 802.3u, 802.3x, 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 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
MAC Table Size	2K	2K	2K	2K
Interface				
Ethernet Port	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	4*10/100Tx (PoE/PoE+), Auto MDI 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-)
Fiber Port	-	-	(SC/ST) 1*100Fx (Multi-Mode 2km / Single-Mode 30km)	(SC/ST) 1*100Fx (Multi-Mode 2km / Single-Mode 30km)
Wavelength	-	-	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
ESD Protection	6,000 VDC for Ethernet	6,000 VDC for Ethernet	6,000 VDC for Ethernet	6,000 VDC for Ethernet
Power Requirements				
Input Voltage	48 to 55VDC, Redundant Input	12 to 36VDC, Redundant Input	48 to 55VDC, Redundant Input	12 to 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	110W @ 48VDC; 130W @ 51 to 55VDC	145W @ 12 to 36VDC	110W@48VDC; 130W@51 to 55VDC	145W @ 12 to 36VDC
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	30 x 142 x 99 mm	46 x 142 x 99 mm
Weight	1.1 lbs.	1.68 lbs.	1.1 lbs.	1.68 lbs.
Mounting	DIN-Rail & Wall Mounting	DIN-Rail & Wall Mounting	DIN-Rail & Wall Mounting	DIN-Rail & Wall Mounting
Environmental Limits				
Operating Temperature	STD: -10C to 70C EOT: -40C to 75C	STD: -10C to 70C EOT: -40C to 75C	STD: -10C to 70C EOT: -40C to 75C	STD: -10C to 70 C EOT: -40C to 75 C
Storage Temperature	-40C to 85C	-40C to 85C	-40C to 85C	-40C 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, UL 508	FCC, CE, UL, UL 508	FCC, CE, UL 508	FCC, CE, UL 508
Warranty	5 Years	5 Years	5 Years	5 Years

Product Showcase

Application Notes

Industrial Ethernet

Media Converters

Industrial Wireless

Industrial Serial Connectivity

SFP Modules

Accessories

Industrial 10/100 PoE Unmanaged Ethernet Switches



Model Names	LNP-0602 Series	LNP-0800 Series	LNP-0800-24 Series	LNP-0802-24 Series
Specifications				
Total Port Count	6-Port	8-Port	8-Port	8-Port
Technology				
Standards	IEEE 802.3, 802.3u, 802.3x, 802.3af/at	IEEE 802.3, 802.3u, 802.3x, 802.3af/at	IEEE 802.3, 802.3u, 802.3x, 802.3af/at	IEEE 802.3, 802.3u, 802.3x, 802.3af/at
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	14,880pps for Ethernet 148,800pps for Fast Ethernet	14,880pps for Ethernet 148,800pps for Fast Ethernet	14,880pps for Ethernet 148,800pps for Fast Ethernet
MAC Table Size	2K	2K	2K	2K
Interface				
Ethernet Port	4*10/100Tx (PoE/PoE+), Auto MDI Connection	8*10/100Tx (PoE/PoE+) Auto MDI Connection	8*10/100Tx (PoE/PoE+) Auto MDI Connection	8*10/100Tx (PoE/PoE+) Auto MDI 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-)
Fiber Port	(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)
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
Power Requirements				
Input Voltage	48 to 55VDC, Redundant Input	48 to 55VDC, Redundant Input	12 to 36VDC, Redundant Input	12 to 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	110W@48VDC; 130W@51 to 55VDC	210 Watts @ 48VDC; 250 Watts @ 51 55VDC	145 Watts @ 12VDC; 200 Watts @ 24VDC	145 Watts @ 12VDC; 200 Watts @ 24VDC
Mechanical Characteristics				
Housing	Metal, IP30 Protection	Metal, IP30 Protection	Metal, IP30 Protection	Metal, IP30 Protection
Dimensions	30 x 142 x 99 mm	30 x 142 x 99 mm	46 x 142 x 99 mm	46 x 142 x 99 mm
Weight	1.1 lbs.	1.1 lbs.	1.68 lbs.	1.68 lbs.
Mounting	DIN-Rail & Wall Mounting	DIN-Rail & Wall Mounting	DIN-Rail & Wall Mounting	DIN-Rail & Wall Mounting
Environmental Limits				
Operating Temperature	STD: -10C to 70C EOT: -40C to 75C	STD: -10C to 70C EOT: -40C to 75C	STD: -10C to 70C EOT: -40C to 75C	STD: -10C to 70C EOT: -40C to 75C
Storage Temperature	-40C to 85C	-40C to 85C	-40C to 85C	-40C 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-0500G Series	LNP-0500G-24 Series	LNP-0702C-SFP Series	LNP-0702C-SFP-24 Series
Specifications				
Total Port Count	5-Port	5-Port	7-Port	7-Port
Technology				
Standards	IEEE 802.3,802.3u,802.3x,802.3ab,802.3z,802.3af/at	IEEE 802.3,802.3u,802.3x,802.3ab,802.3z,802.3af/at	IEEE 802.3,802.3u,802.3x,802.3ab,802.3z,802.3af/at	IEEE 802.3,802.3u,802.3x,802.3ab,802.3z,802.3af/at
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	4*10/100/1000Tx (PoE/PoE+) + 1*10/100/1000Tx Auto MDI Connection	4*10/100/1000Tx (PoE/PoE+) + 1*10/100/1000Tx Auto MDI Connection	4*10/100Tx (PoE/PoE+) + 1*10/100Tx Auto MDI Connection	4*10/100Tx (PoE/PoE+) + 1*10/100Tx Auto MDI 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
Power Requirements				
Input Voltage	48 to 55VDC, Redundant Input	12 to 36VDC, Redundant Input	48 to 55VDC, Redundant Input	12 to 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	110W @ 48V; 130W @ 51-55V (Full Load)	145W @ 24V, Full Load W/PoE	110W @ 48V; 130W @ 51-55V (Full Load)	145W @ 24V, Full Load W/PoE
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	30 x 142 x 99 mm	46 x 142 x 99 mm
Weight	1.1 lbs.	1.6 lbs.	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: -10C to 70C EOT: -40C to 75C	STD: -10C to 70C EOT: -40C to 75C	STD: -10C to 70C EOT: -40C to 75C	STD: -10C to 70C EOT: -40C to 75C
Storage Temperature	-40C to 85C	-40C to 85C	-40C to 85C	-40C 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-61010-1, 61010-2-201	FCC, CE, UL-61010-1, 61010-2-201	FCC, CE, UL-61010-1, 61010-2-201	FCC, CE, UL-61010-1, 61010-2-201
Warranty	5 Years	5 Years	5 Years	5 Years

Product Showcase

Application Notes

Industrial Ethernet

Media Converters

Industrial Wireless

Industrial Serial Connectivity

SFP Modules

Accessories

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,802.3af/at	IEEE 802.3,802.3u,802.3x,802.3ab,802.3z,802.3af/at	IEEE 802.3,802.3u,802.3x,802.3ab,802.3z,802.3af/at	IEEE 802.3,802.3u,802.3x,802.3ab,802.3z,802.3af/at
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 Connection	4*10/100/1000Tx (PoE/PoE+) + 1*10/100/1000Tx Auto MDI 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 Slots	2*100/1000 SFP Slots	-	-
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
Power Requirements				
Input Voltage	48 to 55VDC, Redundant Input	12 to 36VDC, Redundant Input	48 to 57VDC, Redundant Input	12 to 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	110W @ 48V; 130W @ 51-55V (Full Load)	145W @ 24V, Full Load W/PoE	210W @ 48V; 250W @ 51-57V (Full Load)	250W @ 24V, Full Load W/PoE
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.	1.0 lbs.
Mounting	DIN-Rail & Wall Mounting	DIN-Rail & Wall Mounting	DIN-Rail & Wall Mounting	DIN-Rail & Wall Mounting
Environmental Limits				
Operating Temperature	STD: -10C to 70C EOT: -40C to 75C	STD: -10C to 70C EOT: -40C to 75C	STD: -10C to 60C EOT: -40C to 70C	STD: -10C to 60C EOT: -40C to 70C
Storage Temperature	-40C to 85C	-40C to 85C	-40C to 85C	-40C 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-61010-1, 61010-2-201	FCC, CE, UL-61010-1, 61010-2-201	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-0800G-M12-67 Series	LNP-0800G-M12-67-24 Series	LNP-0802C-SFP Series	LNP-0802C-SFP-24 Series	LNP-1002C-SFP Series
Specifications					
Total Port Count	8-Port	8-Port	8-Port	10-Port	10-Port
Technology					
Standards	IEEE 802.3,802.3u,802.3x,802.3ab,802.3z,802.3af/at	IEEE 802.3,802.3u,802.3x,802.3ab,802.3z,802.3af/at	IEEE 802.3,802.3u,802.3x,802.3ab,802.3z,802.3af/at	IEEE 802.3,802.3u,802.3x,802.3ab,802.3z,802.3af/at	IEEE 802.3,802.3u,802.3x,802.3ab,802.3z,802.3af/at
Processing Type	Store and Forward				
Protocol	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				
MAC Table Size	8K				
Interface					
Ethernet Port	8*10/100/1000Tx (PoE/PoE+), w/M12 Auto MDI/MDI-X Connection	8*10/100/1000Tx (PoE/PoE+), w/M12 Auto MDI/MDI-X Connection	6*10/100Tx (PoE/PoE+), Auto MDI Connection	6*10/100Tx (PoE/PoE+), Auto MDI Connection	8*10/100Tx (PoE/PoE+) Auto MDI Connection
PoE Pin Assignment	Output Pin: 1,2 (V+), 3,6 (V-)				
Fiber Port			2*GigE Combo (2*10/100/1000Tx + 2*100/1000 SFP)	2*GigE Combo (2*10/100/1000Tx + 2*100/1000 SFP)	2*GigE Combo (2*10/100/1000Tx + 2*100/1000 SFP)
Wavelength Protection	-				
EFT Protection	2,000 VDC for Power Line				
ESD Protection	6,000 VDC for Ethernet				
Power Requirements					
Input Voltage	12 to 55VDC, Redundant Input	12 to 36VDC, Redundant Input	48 to 55VDC, Redundant Input	12 to 36VDC, Redundant Input	48 to 55VDC, Redundant Input
Overload Current Protection	Present				
Connection	1*M23 Male		1 Removable 6-Contact Terminal Block	1 Removable 6-Contact Terminal Block	1 Removable 6-Contact Terminal Block
Reverse Polarity Protection	Yes				
Power Output	Max 30W per PoE Port				
Power Consumption	250 Watts Max. @ 24VDC	250 Watts Max. @ 24VDC	210W @ 48V; 250W @ 51-57V (Full Load)	250W @ 24V, Full Load W/PoE	210W @ 48V; 250W @ 51-57V (Full Load)
Mechanical Characteristics					
Housing	Metal, IP67 Protection		Metal, IP30 Protection	Metal, IP30 Protection	Metal, IP30 Protection
Dimensions	92 x 180 x 42 mm		46 x 142 x 99 mm	46 x 142 x 99 mm	46 x 142 x 99 mm
Weight	4 lbs.		1.5 lbs.	1.5 lbs.	1.5 lbs.
Mounting	DIN-Rail & Wall Mounting		DIN-Rail & Wall Mounting	DIN-Rail & Wall Mounting	DIN-Rail & Wall Mounting
Environmental Limits					
Operating Temperature	EOT: -40C to 75C	EOT: -40C to 75C	STD: -10C to 70C EOT: -40C to 75C	STD: -10C to 70C EOT: -40C to 75C	STD: -10C to 70C EOT: -40C to 75C
Storage Temperature	-40C to 85C				
Ambient Relative Humidity	5 to 95%, (Non-Condensing)				
Regulatory Approvals					
Green	RoHS Compliant				
Certifications	FCC, CE, UL-61010-1, 61010-2-201 (pending)	FCC, CE, UL-61010-1, 61010-2-201 (pending)	FCC, CE, UL-61010-1, 61010-2-201	FCC, CE, UL-61010-1, 61010-2-201	FCC, CE, UL-61010-1, 61010-2-201
Warranty	5 Years				

Product Showcase

Application Notes

Industrial Ethernet

Media Converters

Industrial Wireless

Industrial Serial Connectivity

SFP Modules

Accessories

Industrial 10/100/1000 PoE Unmanaged Ethernet Switches



Model Names	LNP-1002C-SFP-24 Series	LNP-1002G-SFP Series	LNP-1002G-SFP-24 Series	LNP-1002G-10G-SFP	LNP-1002G-10G-SFP-24
Specifications					
Total Port Count	10-Port	10-Port	10-Port	10-Port	10-Port
Technology					
Standards	IEEE 802.3,802.3u,802.3x,802.3ab,802.3z,802.3af/at	IEEE 802.3,802.3u,802.3x,802.3ab,802.3z,802.3af/at	IEEE 802.3,802.3u,802.3x,802.3ab,802.3z,802.3af/at	IEEE 802.3,802.3u,802.3x,802.3ab,802.3z,802.3af/at, 802.3ae	IEEE 802.3,802.3u,802.3x,802.3ab,802.3z,802.3af/at, 802.3ae
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 14,880,000pps for 10 Gigabit Ethernet Port	14,880pps for Ethernet 148,800pps for Fast Ethernet 1,488,000pps for Gigabit Ethernet 14,880,000pps for 10 Gigabit Ethernet Port
Jumbo Frame Support	9.6Kbytes	9.6Kbytes	9.6Kbytes	9.2Kbytes	9.2Kbytes
MAC Table Size	8K	8K	8K	16K	16K
Interface					
Ethernet Port	8*10/100Tx (PoE/PoE+) Auto MDI Connection	8*10/100/1000Tx (PoE/PoE+) Auto MDI Connection	8*10/100/1000Tx (PoE/PoE+) Auto MDI Connection	8*10/100/1000Tx (PoE/PoE+) Auto MDI Connection	8*10/100/1000Tx (PoE/PoE+) Auto MDI 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*GigE Combo (2*10/100/1000Tx + 2*100/1000 SFP)	2*100/1000 SFP Slots	2*100/1000 SFP Slots	2*10G SFP Slots	2*10G SFP Slots
Wavelength	Refer to SFP Module	Refer to SFP Module	Refer to SFP Module	Refer to SFP Module	Refer to SFP Module
Protection					
EFT Protection	2,000VDC for Power Line	2,000VDC for Power Line	2,000VDC for Power Line	2,000VDC for Power Line	2,000VDC for Power Line
ESD Protection	6,000VDC for Ethernet	6,000VDC for Ethernet	6,000VDC for Ethernet	6,000VDC for Ethernet	6,000VDC for Ethernet
Power Requirements					
Input Voltage	12 to 36VDC, Redundant Input	48 to 55VDC, Redundant Input	12 to 36VDC, Redundant Input	48 to 55VDC, Redundant Input	12 to 36VDC, 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	250W @ 24V, Full Load W/PoE	210W @ 48V; 250W @ 51-57V (Full Load)	250W @ 24V, Full Load W/PoE	230W @ 48V; 265W @ 51-57V (Full Load)	230W @ 48V; 265W @ 51-57V (Full Load)
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	46 x 142 x 99 mm
Weight	1.5 lbs.	1.5 lbs.	1.5 lbs.	1.5 lbs.	1.5 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: -10C to 70C EOT: -40C to 75C	STD: -10C to 60C EOT: -40C to 75C	STD: -10C to 60C EOT: -40C to 75C	STD: -40C to 60C	STD: -40C to 60C
Storage Temperature	-40C to 85C	-40C to 85C	-40C to 85C	-40C to 85C	-40C 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-61010-1, 61010-2-201	FCC, CE, UL-61010-1, 61010-2-201	FCC, CE, UL-61010-1, 61010-2-201	FCC, CE, UL-61010-1, 61010-2-201 (Pending)	FCC, CE, UL-61010-1, 61010-2-201 (Pending)
Warranty	5 Years	5 Years	5 Years	5 Years	5 Years



Industrial 10/100/1000 PoE Unmanaged Ethernet Switches



Model Names	LNP-1202G-SFP Series	LNP-1204G-SFP Series	LNP-1600G Series	LNP-1604G-SFP Series
Specifications				
Total Port Count	12-Port	12-Port	16-Port	16-Port
Technology				
Standards	IEEE 802.3,802.3u,802.3x,802.3ab,802.3z,802.3af/at	IEEE 802.3,802.3u,802.3x,802.3ab,802.3z,802.3af/at	IEEE 802.3,802.3u,802.3x,802.3ab,802.3z,802.3af/at	IEEE 802.3,802.3u,802.3x,802.3ab,802.3z,802.3af/at
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	8*10/100/1000Tx (PoE/PoE+) + 2*10/100/1000Tx Auto MDI Connection	8*10/100/1000Tx (PoE/PoE+) Auto MDI Connection	12*10/100/1000Tx (PoE/PoE+) Auto MDI Connection	12*10/100/1000Tx (PoE/PoE+) Auto MDI 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 Slots	4*100/1000 SFP Slots	-	4*100/1000 SFP Slots
Wavelength	Refer to SFP Module	Refer to SFP Module	Refer to SFP Module	Refer to SFP Module
Protection				
EFT Protection	2,000VDC for Power Line	2,000VDC for Power Line	2,000VDC for Power Line	2,000VDC for Power Line
ESD Protection	6,000VDC for Ethernet	6,000VDC for Ethernet	6,000VDC for Ethernet	6,000VDC for Ethernet
Power Requirements				
Input Voltage	48 to 55VDC, Redundant Input	48 to 55VDC, Redundant Input	48 to 55VDC, Redundant Input	48 to 55VDC, 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	215W @ 48VDC / 255W @ 55VDC (Full Load)	215W @ 48VDC / 255W @ 55VDC (Full Load)	215W @ 48VDC / 255W @ 55VDC (Full Load)	215W @ 48VDC / 255W @ 55VDC (Full Load)
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	55 x 142 x 99 mm	55 x 142 x 99 mm
Weight	1.8 lbs.	1.8 lbs.	3.0 lbs.	3.0 lbs.
Mounting	DIN-Rail & Wall Mounting	DIN-Rail & Wall Mounting	DIN-Rail & Wall Mounting	DIN-Rail & Wall Mounting
Environmental Limits				
Operating Temperature	STD: -10C to 70C EOT: -40C to 75C	STD: -10C to 70C EOT: -40C to 75C	STD: -10C to 70C EOT: -40C to 75C	STD: -10C to 70C EOT: -40C to 75C
Storage Temperature	-40C to 85C	-40C to 85C	-40C to 85C	-40C 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-61010-1, 61010-2-201	FCC, CE, UL-61010-1, 61010-2-201	FCC, CE, UL-61010-1, 61010-2-201 (Pending)	FCC, CE, UL-61010-1, 61010-2-201 (Pending)
Warranty	5 Years	5 Years	5 Years	5 Years

Product Showcase

Application Notes

Industrial Ethernet

Media Converters

Industrial Wireless

Industrial Serial Connectivity

SFP Modules

Accessories

**Industrial 10/100/1000 PoE
Unmanaged Ethernet Switches**



Model Names	LNP-1802G-SFP Series	LNP-1804G-SFP Series	LNP-2004G-SFP Series	LNP-2602G-SFP Series
Specifications				
Total Port Count	18-Port	18-Port	20-Port	26-Port
Technology				
Standards	IEEE 802.3,802.3u,802.3x,802.3ab,802.3z,802.3af/at	IEEE 802.3,802.3u,802.3x,802.3ab,802.3z,802.3af/at	IEEE 802.3,802.3u,802.3x,802.3ab,802.3z,802.3af/at	IEEE 802.3,802.3u,802.3x,802.3ab,802.3z,802.3af/at
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	16*10/100/1000Tx (PoE/PoE+) Auto MDI Connection	14*10/100/1000Tx (PoE/PoE+) Auto MDI Connection	16*10/100/1000Tx (PoE/PoE+) Auto MDI Connection	24*10/100/1000Tx (PoE/PoE+) Auto MDI 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 Slots	4*100/1000 SFP Slots	4*100/1000 SFP Slots	2*GigE Combo (2*10/100/1000Tx + 2*100/1000 SFP)
Wavelength	Refer to SFP Module	Refer to SFP Module	Refer to SFP Module	Refer to SFP Module
Protection				
EFT Protection	2,000VDC for Power Line	2,000VDC for Power Line	2,000VDC for Power Line	2,000VDC for Power Line
ESD Protection	6,000VDC for Ethernet	6,000VDC for Ethernet	6,000VDC for Ethernet	6,000VDC for Ethernet
Power Requirements				
Input Voltage	48 to 55VDC, Redundant Input	48 to 55VDC, Redundant Input	48 to 55VDC, Redundant Input	48 to 55VDC, 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	215W @ 48VDC / 255W @ 55VDC (Full Load)	215W @ 48VDC / 255W @ 55VDC (Full Load)	215W @ 48VDC / 255W @ 55VDC (Full Load)	720W
Mechanical Characteristics				
Housing	Metal, IP30 Protection	Metal, IP30 Protection	Metal, IP30 Protection	Metal, IP40 Protection
Dimensions	55 x 142 x 99 mm	55 x 142 x 99 mm	55 x 142 x 99 mm	440 x 200 x 44 mm
Weight	3.0 lbs.	3.0 lbs.	3.0 lbs.	6.0 lbs.
Mounting	DIN-Rail & Wall Mounting	DIN-Rail & Wall Mounting	DIN-Rail & Wall Mounting	Rack
Environmental Limits				
Operating Temperature	STD: -10C to 70C EOT: -40C to 75C	STD: -10C to 70C EOT: -40C to 75C	STD: -10C to 70C EOT: -40C to 75C	STD: -10C to 70C EOT: -40C to 75C
Storage Temperature	-40C to 85C	-40C to 85C	-40C to 85C	-40C 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-61010-1, 61010-2-201 (Pending)	FCC, CE, UL-61010-1, 61010-2-201 (Pending)	FCC, CE, UL-61010-1, 61010-2-201 (Pending)	FCC, CE, UL-61010-1, 61010-2-201 (Pending)
Warranty	5 Years	5 Years	5 Years	5 Years



Industrial 10/100 PoE Managed Switches



Model Names	LMP-0501 Series	LMP-0501-24 Series	LMP-0600 Series	LMP-0600-24 Series
Specifications				
Total Port Count	5-Port	5-Port	6-Port	6-Port
Technology				
Standards	IEEE 802.3, 802.3u, 802.3x, 802.1D, 802.1w, 802.1p, 802.1Q, 802.3/af/at, ITU-T G.8032	IEEE 802.3, 802.3u, 802.3x, 802.1D, 802.1w, 802.1p, 802.1Q, 802.3/af/at, ITU-T G.8032	IEEE 802.3, 802.3u, 802.3x, 802.1D, 802.1w, 802.1p, 802.1Q, 802.3/af/at, ITU-T G.8032	IEEE 802.3, 802.3u, 802.3x, 802.1D, 802.1w, 802.1p, 802.1Q, 802.3/af/at, ITU-T G.8032
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/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
Industrial Protocol	ModbusTCP	ModbusTCP	ModbusTCP	ModbusTCP
MAC Table Size	8K	8K	8K	8K
Interface				
Ethernet Port	4*10/100Tx (PoE/PoE+), Auto MDI Connection	4*10/100Tx (PoE/PoE+), Auto MDI Connection	4*10/100Tx (PoE/PoE+), 2*10/100Tx, Auto MDI Connection	4*10/100Tx (PoE/PoE+), 2*10/100Tx, Auto MDI 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	(SC/ST) 1*100Fx (Multi-Mode 2km, Single-Mode 30km)	(SC/ST) 1*100Fx (Multi-Mode 2km, Single-Mode 30km)	-	-
Wavelength	1301nm (Multi/Signle-Mode)	1301nm (Multi/Signle-Mode)	-	-
Serial Console	1*RS232 (RJ45 Port)	1*RS232 (RJ45 Port)	1*RS232 (RJ45 Port)	1*RS232 (RJ45 Port)
Configuration Backup	USB	USB	USB	USB
Network Management & Control				
System Configuration	Web Console, Telnet, CLI	Web Console, Telnet, CLI	Web Console, Telnet, CLI	Web Console, Telnet, CLI
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, 1 to 4094	Port Based, Tag Based, 1 to 4094	Port Based, Tag Based, 1 to 4094	Port Based, Tag Based, 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, 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	IGMP v1, v2 and Query Mode. Up to 256 Groups
IEEE 802.1X Authentication	RADIUS Support	RADIUS Support	RADIUS Support	RADIUS Support
PoE Auto-Ping Check	Yes	Yes	Yes	Yes
System Warning Email Alert	By Exception through Email	By Exception through Email	By Exception through Email	By Exception through Email
Power Requirements				
Input Voltage	48 to 55VDC, Redundant Input	12 to 36VDC, Redundant Input	48 to 55VDC, Redundant Input	12 to 36VDC, 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
PoE Power Output	Max 30W per PoE Port	Max 30W per PoE Port	Max 30W per PoE Port	Max 30W per PoE Port
Power Consumption	130W	145W	130W	145W
Relay Alarm Contact	1A @ DC24V	1A @ DC24V	1A @ DC24V	1A @ DC24V
Mechanical Characteristics				
Housing	Metal, IP30 Protection	Metal, IP30 Protection	Metal, IP30 Protection	Metal, IP30 Protection
Dimensions	54 x 142 x 99 mm	54 x 142 x 99 mm	54 x 142 x 99 mm	54 x 142 x 99 mm
Weight	1.5 lbs.	1.5 lbs.	1.5 lbs.	1.5 lbs.
Mounting	DIN-Rail & Wall Mounting	DIN-Rail & Wall Mounting	DIN-Rail & Wall Mounting	DIN-Rail & Wall Mounting
Environmental Limits				
Operating Temperature	STD: -10C to 70C EOT: -40C to 75C	STD: -10C to 70C EOT: -40C to 75C	STD: -10C to 70C EOT: -40C to 75C	STD: -10C to 70C EOT: -40C to 75C
Storage Temperature	-40C to 85C	-40C to 85C	-40C to 85C	-40C 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-61010-1, -2-201(Pending)	FCC, CE, UL-61010-1, -2-201(Pending)	FCC, CE, UL-61010-1, -2-201(Pending)	FCC, CE, UL-61010-1, -2-201(Pending)
Warranty	5 Years	5 Years	5 Years	5 Years

Product Showcase

Application Notes

Industrial Ethernet

Media Converters

Industrial Wireless

Industrial Serial Connectivity

SFP Modules

Accessories

Industrial 10/100 PoE Managed Switches



Model Names	LMP-0602 Series	LMP-0602-24 Series
Specifications		
Total Port Count	6-Port	6-Port
Technology		
Standards	IEEE 802.3, 802.3u, 802.3x, 802.1D, 802.1w, 802.1p, 802.1Q, 802.3/af/at, ITU-T G.8032	IEEE 802.3, 802.3u, 802.3x, 802.1D, 802.1w, 802.1p, 802.1Q, 802.3/af/at, 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
Industrial Protocol	ModbusTCP	ModbusTCP
MAC Table Size	8K	8K
Interface		
Ethernet Port	4*10/100Tx (PoE/PoE+), Auto MDI Connection	4*10/100Tx (PoE/PoE+), Auto MDI Connection
PoE Pin Assignment	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)
Wavelength	1310nm (Multi/Single-Mode)	1310nm (Multi/Single-Mode)
Serial Console	1*RS232 (RJ45 Port)	1*RS232 (RJ45 Port)
Configuration Backup	USB	USB
Network Management & Control		
System Configuration	Web Console, Telnet, CLI	Web Console, Telnet, CLI
Network Redundancy	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, 1 to 4094	Port Based, Tag Based, 1 to 4094
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
PoE Auto-Ping Check	Yes	Yes
System Warning Email Alert	By Exception through Email	By Exception through Email
Power Requirements		
Input Voltage	48 to 55VDC, Redundant Input	12 to 36VDC, Redundant Input
Connection	1 Removable 6-Contact Terminal Block	1 Removable 6-Contact Terminal Block
Reverse Polarity Protection	Yes	Yes
PoE Power Output	Max 30W per PoE Port	Max 30W per PoE Port
Power Consumption	145W	145W
Relay Alarm Contact	1A @ DC24V	1A @ DC24V
Mechanical Characteristics		
Housing	Metal, IP30 Protection	Metal, IP30 Protection
Dimensions	54 x 142 x 99 mm	54 x 142 x 99 mm
Weight	1.5 lbs.	1.5 lbs.
Mounting	DIN-Rail & Wall Mounting	DIN-Rail & Wall Mounting
Environmental Limits		
Operating Temperature	STD: -10C to 70C EOT: -40C to 75C	STD: -10C to 70C EOT: -40C to 75C
Storage Temperature	-40C to 85C	-40C 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, UL-61010-1, -2-201(Pending)	FCC, CE, UL-61010-1, -2-201(Pending)
Warranty	5 Years	5 Years



Industrial 10/100/1000 PoE Managed Switches



Model Names	LMP-0601G-SFP Series	LMP-0601G-SFP-24 Series	LMP-0800G Series	LMP-0800G-24 Series
Specifications				
Total Port Count	6-Port	6-Port	8-Port	8-Port
Technology				
Standards	IEEE 802.3, 802.3u, 802.3z, 802.3x, 802.1D, 802.1w, 802.1p, 802.1Q, 802.1ab, 802.3af/at, ITU-T G.8032	IEEE 802.3, 802.3u, 802.3z, 802.3x, 802.1D, 802.1w, 802.1p, 802.1Q, 802.1ab, 802.3af/at, ITU-T G.8032	IEEE 802.3, 802.3u, 802.3z, 802.3x, 802.1D, 802.1w, 802.1p, 802.1Q, 802.1ab, 802.3af/at, ITU-T G.8032	IEEE 802.3, 802.3u, 802.3z, 802.3x, 802.1D, 802.1w, 802.1p, 802.1Q, 802.1ab, 802.3af/at, 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	IGMPv1/v2/v3, GVRP, SNMPv1/v2c/v3, DHCP Server/Client, SNTP, RMON, HTTP, Telnet, Syslog, LLDP, IPv6, LACP
Industrial Protocol	ModbusTCP	ModbusTCP	ModbusTCP	ModbusTCP
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 Connection	4*10/100/1000Tx (PoE/PoE+) + 1*10/100/1000Tx Auto MDI Connection	8*10/100/1000Tx (PoE/PoE+), Auto MDI Connection	8*10/100/1000Tx (PoE/PoE+), Auto MDI 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*100/1000 SFP Slot	1*100/1000 SFP Slot	-	-
Wavelength	Refer to SFP Module	Refer to SFP Module	-	-
Serial Console	1*RS232 (RJ45 Port)	1*RS232 (RJ45 Port)	1*RS232 (RJ45 Port)	1*RS232 (RJ45 Port)
Configuration Backup	USB	USB	USB	USB
Network Management & Control				
System Configuration	Web Console, Telnet, CLI	Web Console, Telnet, CLI	Web Console, Telnet, CLI	Web Console, Telnet, CLI
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, 1 to 4094	Port Based, Tag Based, 1 to 4094	Port Based, Tag Based, 1 to 4094	Port Based, Tag Based, 1 to 4094
QoS	Provides 4 Priority Queues per Port	Provides 4 Priority Queues per Port	Provides 8 Priority Queues per Port	Provides 8 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	IGMP v1, v2 and Query Mode. Up to 256 Groups
IEEE 802.1X Authentication	RADIUS Support	RADIUS Support	RADIUS Support	RADIUS Support
PoE Ping Alert	Yes	Yes	Yes	Yes
System Warning Email Alert	By Exception through Email	By Exception through Email	By Exception through Email	By Exception through Email
Power Requirements				
Input Voltage	48 to 55VDC, Redundant Input	12 to 36VDC, Redundant Input	48 to 55VDC, Redundant Input	12 to 36VDC, 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
PoE Power Output	Max 30W per PoE Port	Max 30W per PoE Port	Max 30W per PoE Port	Max 30W per PoE Port
Power Consumption	130W	145W	245W	190W @ 12VDC / 255W @ 36VDC
Relay Alarm Contact	1A @ DC24V	1A @ DC24V	1A @ DC24V	1A @ DC24V
Mechanical Characteristics				
Housing	Metal, IP30 Protection	Metal, IP30 Protection	Metal, IP30 Protection	Metal, IP30 Protection
Dimensions	54 x 142 x 99 mm	54 x 142 x 99 mm	54 x 142 x 99 mm	54 x 142 x 99 mm
Weight	1.5 lbs.	1.5 lbs.	2.1 lbs.	2.1 lbs.
Mounting	DIN-Rail & Wall Mounting	DIN-Rail & Wall Mounting	DIN-Rail & Wall Mounting	DIN-Rail & Wall Mounting
Environmental Limits				
Operating Temperature	STD: -10C to 70C EOT: -40C to 75C	STD: -10C to 70C EOT: -40C to 75C	STD: -10C to 70C EOT: -40C to 75C	STD: -10C to 70C EOT: -40C to 75C
Storage Temperature	-40C to 85C	-40C to 85C	-40C to 85C	-40C 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-61010-1, 2-201(Pending)	FCC, CE, UL-61010-1, 2-201(Pending)	FCC, CE, UL-61010-1, 2-201(Pending)	FCC, CE, UL-61010-1, 2-201(Pending)
Warranty	5 Years	5 Years	5 Years	5 Years

Product Showcase

Application Notes

Industrial Ethernet

Media Converters

Industrial Wireless

Industrial Serial Connectivity

SFP Modules

Accessories

Industrial 10/100/1000 PoE Managed Switches



Model Names	LMP-0804G Series	LMP-1002C-SFP Series	LMP-1002C-SFP-24 Series	LMP-1002G-SFP Series
Specifications				
Total Port Count	8-Port	10-Port	10-Port	10-Port
Technology				
Standards	IEEE 802.3, 802.3u, 802.3z, 802.3x, 802.1D, 802.1w, 802.1p, 802.1Q, 802.1ab, 802.3af/at, ITU-T G.8032	IEEE 802.3, 802.3u, 802.3z, 802.3x, 802.1D, 802.1w, 802.1p, 802.1Q, 802.1ab, 802.3af/at, ITU-T G.8032	IEEE 802.3, 802.3u, 802.3z, 802.3x, 802.1D, 802.1w, 802.1p, 802.1Q, 802.1ab, 802.3af/at, ITU-T G.8032	IEEE 802.3, 802.3u, 802.3z, 802.3x, 802.1D, 802.1w, 802.1p, 802.1Q, 802.1ab, 802.3af/at, 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	IGMPv1/v2/v3, GVRP, SNMPv1/v2c/v3, DHCP Server/Client, SNTP, RMON, HTTP, Telnet, Syslog, LLDP, IPv6, LACP
Industrial Protocol	ModbusTCP	ModbusTCP	ModbusTCP	ModbusTCP
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+), Auto MDI Connection	8*10/100Tx (PoE/PoE+) Auto MDI Connection	8*10/100Tx (PoE/PoE+) Auto MDI Connection	8*10/100/1000Tx (PoE/PoE+) Auto MDI 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	4*100/1000 SFP Slots	2*100/1000 Combo Ports (RJ45/SFP)	2*100/1000 Combo Ports (RJ45/SFP)	2*100/1000 SFP Slots
Wavelength	Refer to SFP Module	Refer to SFP Module	Refer to SFP Module	Refer to SFP Module
Serial Console	1*RS232 (RJ45 Port)	1*RS232 (RJ45 Port)	1*RS232 (RJ45 Port)	1*RS232 (RJ45 Port)
Configuration Backup	USB	USB	USB	USB
Network Management & Control				
System Configuration	Web Console, Telnet, CLI	Web Console, Telnet, CLI	Web Console, Telnet, CLI	Web Console, Telnet, CLI
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, 1 to 4094	Port Based, Tag Based, 1 to 4094	Port Based, Tag Based, 1 to 4094	Port Based, Tag Based, 1 to 4094
QoS	Provides 8 Priority Queues per Port	Provides 8 Priority Queues per Port	Provides 8 Priority Queues per Port	Provides 8 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	IGMP v1, v2 and Query Mode. Up to 256 Groups
IEEE 802.1X Authentication	RADIUS Support	RADIUS Support	RADIUS Support	RADIUS Support
PoE Ping Alert	Yes	Yes	Yes	Yes
System Warning Email Alert	By Exception through Email	By Exception through Email	By Exception through Email	By Exception through Email
Power Requirements				
Input Voltage	48 to 55VDC, Redundant Input	48 to 55VDC, Redundant Input	12 to 36VDC, Redundant Input	48 to 55VDC, 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
PoE Power Output	Max 30W per PoE Port	Max 30W per PoE Port	Max 30W per PoE Port	Max 30W per PoE Port
Power Consumption	135W	255W	145W @12VDC / 200W @ 24VDC	215W @24VDC / 255W @ 48 to 55VDC
Relay Alarm Contact	1A @ DC24V	1A @ DC24V	1A @ DC24V	1A @ DC24V
Mechanical Characteristics				
Housing	Metal, IP30 Protection	Metal, IP30 Protection	Metal, IP30 Protection	Metal, IP30 Protection
Dimensions	54 x 142 x 99 mm	54 x 142 x 99 mm	54 x 142 x 99 mm	54 x 142 x 99 mm
Weight	2.4 lbs.	2.4 lbs.	2.4 lbs.	2.5 lbs.
Mounting	DIN-Rail & Wall Mounting	DIN-Rail & Wall Mounting	DIN-Rail & Wall Mounting	DIN-Rail & Wall Mounting
Environmental Limits				
Operating Temperature	STD: -10C to 70C EOT: -40C to 75C	STD: -10C to 70C EOT: -40C to 75C	STD: -10C to 70C EOT: -40C to 75C	STD: -10C to 70C EOT: -40C to 75C
Storage Temperature	-40C to 85C	-40C to 85C	-40C to 85C	-40C 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-61010-1, 2-201(Pending)	FCC, CE, UL-61010-1, 2-201(Pending)	FCC, CE, UL-61010-1, 2-201(Pending)	FCC, CE, UL-61010-1, 2-201(Pending)
Warranty	5 Years	5 Years	5 Years	5 Years



Industrial 10/100/1000 PoE Managed Switches



Model Names	LMP-1002G-SFP-24 Series	LMP-1002G-10G-SFP Series	LMP-1002G-10G-SFP-24 Series	LMP-1202G-SFP Series
Specifications				
Total Port Count	10-Port	10-Port	10-Port	12-Port
Technology				
Standards	IEEE 802.3, 802.3u, 802.3z, 802.3x, 802.1D, 802.1w, 802.1p, 802.1Q, 802.1ab, 802.3af/at, ITU-T G.8032	IEEE 802.3, 802.3u, 802.3z, 802.3ae, 802.3x, 802.1D, 802.1w, 802.1p, 802.1Q, 802.1ab, 802.3af/at, ITU-T G.8032	IEEE 802.3, 802.3u, 802.3z, 802.3ae, 802.3x, 802.1D, 802.1w, 802.1p, 802.1Q, 802.1ab, 802.3af/at, ITU-T G.8032	IEEE 802.3, 802.3u, 802.3z, 802.3x, 802.1D, 802.1w, 802.1p, 802.1Q, 802.1ab, 802.3af/at, 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	IGMPv1/v2/v3, GVRP, SNMPv1/v2c/v3, DHCP Server/Client, SNMP, RMON, HTTP, Telnet, Syslog, LLDP, IPv6, LACP
Industrial Protocol	ModbusTCP	ModbusTCP	ModbusTCP	ModbusTCP
Jumbo Frame Support	9.6Kbytes	9.2Kbytes	9.2Kbytes	9.6Kbytes
MAC Table Size	8K	16K	16K	8K
Interface				
Ethernet Port	8*10/100/1000Tx (PoE/PoE+) Auto MDI Connection	8*10/100/1000Tx (PoE/PoE+) Auto MDI Connection	8*10/100/1000Tx (PoE/PoE+) Auto MDI Connection	10*10/100/1000Tx (PoE/PoE+) Auto MDI 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 Slots	2*10G SFP+ Slots	2*10G SFP+ Slots	2*100/1000 SFP Slots
Wavelength	Refer to SFP Module	Refer to SFP+ Module	Refer to SFP+ Module	Refer to SFP Module
Serial Console	1*RS232 (RJ45 Port)	1*RS232 (RJ45 Port)	1*RS232 (RJ45 Port)	1*RS232 (RJ45 Port)
Configuration Backup	USB	USB	USB	USB
Network Management & Control				
System Configuration	Web Console, Telnet, CLI	Web Console, Telnet, CLI	Web Console, Telnet, CLI	Web Console, Telnet, CLI
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, 1 to 4094	Port Based, Tag Based, 1 to 4094	Port Based, Tag Based, 1 to 4094	Port Based, Tag Based, 1 to 4094
QoS	Provides 8 Priority Queues per Port	Provides 8 Priority Queues per Port	Provides 8 Priority Queues per Port	Provides 8 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	IGMP v1, v2 and Query Mode. Up to 256 Groups
IEEE 802.1X Authentication	RADIUS Support	RADIUS Support	RADIUS Support	RADIUS Support
PoE Ping Alert	Yes	Yes	Yes	Yes
System Warning Email Alert	By Exception through Email	By Exception through Email	By Exception through Email	By Exception through Email
Power Requirements				
Input Voltage	12 to 36VDC, Redundant Input	48 to 55VDC, Redundant Input	12 to 36VDC, Redundant Input	48 to 55VDC, 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
PoE 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 @ 12VDC / 200W @ 24VDC	255W	215W @24VDC	215W @24VDC / 255W @ 48 to 55VDC
Relay Alarm Contact	1A @ DC24V	1A @ DC24V	1A @ DC24V	1A @ DC24V
Mechanical Characteristics				
Housing	Metal, IP30 Protection	Metal, IP30 Protection	Metal, IP30 Protection	Metal, IP30 Protection
Dimensions	54 x 142 x 99 mm	54 x 142 x 99 mm	54 x 142 x 99 mm	54 x 142 x 99 mm
Weight	2.5 lbs.	3.0 lbs.	3.0 lbs.	2.5 lbs.
Mounting	DIN-Rail & Wall Mounting	DIN-Rail & Wall Mounting	DIN-Rail & Wall Mounting	DIN-Rail & Wall Mounting
Environmental Limits				
Operating Temperature	STD: -10C to 70C EOT: -40C to 75C	-40C to 60C	-40C to 60C	STD: -10C to 70C EOT: -40C to 75C
Storage Temperature	-40C to 85C	-40C to 85C	-40C to 85C	-40C 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-61010-1, 2-201(Pending)	FCC, CE, UL-61010-1, 2-201(Pending)	FCC, CE, UL-61010-1, 2-201(Pending)	FCC, CE, UL-61010-1, 2-201(Pending)
Warranty	5 Years	5 Years	5 Years	5 Years

Product Showcase

Application Notes

Industrial Ethernet

Media Converters

Industrial Wireless

Industrial Serial Connectivity

SFP Modules

Accessories

Industrial 10/100/1000 PoE Managed Switches



Model Names	LMP-1204G-SFP Series	LMP-1600G Series	LMP-1604G-SFP Series	LMP-1802G-SFP Series
Specifications				
Total Port Count	12-Port	16-Port	16-Port	18-Port
Technology				
Standards	IEEE 802.3, 802.3u, 802.3z, 802.3x, 802.1D, 802.1w, 802.1p, 802.1Q, 802.1ab, 802.3af/at, ITU-T G.8032	IEEE 802.3, 802.3u, 802.3z, 802.3x, 802.1D, 802.1w, 802.1p, 802.1Q, 802.1ab, 802.3af/at, ITU-T G.8032	IEEE 802.3, 802.3u, 802.3z, 802.3x, 802.1D, 802.1w, 802.1p, 802.1Q, 802.1ab, 802.3af/at, ITU-T G.8032	IEEE 802.3, 802.3u, 802.3z, 802.3x, 802.1D, 802.1w, 802.1p, 802.1Q, 802.1ab, 802.3af/at, 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	IGMPv1/v2/v3, GVRP, SNMPv1/v2c/v3, DHCP Server/Client, SNTP, RMON, HTTP, Telnet, Syslog, LLDP, IPv6, LACP
Industrial Protocol	ModbusTCP	ModbusTCP	ModbusTCP	ModbusTCP
Jumbo Frame Support	9.6Kbytes	9.6Kbytes	9.6Kbytes	9.6Kbytes
MAC Table Size	8K	8K	8K	8K
Interface				
Ethernet Port	8*10/100/1000Tx (PoE/PoE+) Auto MDI Connection	16*10/100/1000Tx (PoE/PoE+), Auto MDI Connection	12*10/100/1000Tx (PoE/PoE+), Auto MDI Connection	16*10/100/1000Tx (PoE/PoE+), Auto MDI 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	4*100/1000 SFP Slots	-	4*100/1000 SFP Slots	2*100/1000 SFP Slots
Wavelength	Refer to SFP Module	-	Refer to SFP Module	Refer to SFP Module
Serial Console	1*RS232 (RJ45 Port)	1*RS232 (RJ45 Port)	1*RS232 (RJ45 Port)	1*RS232 (RJ45 Port)
Configuration Backup	USB	USB	USB	USB
Network Management & Control				
System Configuration	Web Console, Telnet, CLI	Web Console, Telnet, CLI	Web Console, Telnet, CLI	Web Console, Telnet, CLI
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, 1 to 4094	Port Based, Tag Based, 1 to 4094	Port Based, Tag Based, 1 to 4094	Port Based, Tag Based, 1 to 4094
QoS	Provides 8 Priority Queues per Port	Provides 8 Priority Queues per Port	Provides 8 Priority Queues per Port	Provides 8 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	IGMP v1, v2 and Query Mode. Up to 256 Groups
IEEE 802.1X Authentication	RADIUS Support	RADIUS Support	RADIUS Support	RADIUS Support
PoE Ping Alert	Yes	Yes	Yes	Yes
System Warning Email Alert	By Exception through Email	By Exception through Email	By Exception through Email	By Exception through Email
Power Requirements				
Input Voltage	48 to 55VDC, Redundant Input	48 to 55VDC, Redundant Input	48 to 55VDC, Redundant Input	48 to 55VDC, 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
PoE Power Output	Max 30W per PoE Port	Max 30W per PoE Port	Max 30W per PoE Port	Max 30W per PoE Port
Power Consumption	215W @24VDC / 255W @ 48 to 55VDC	490W	375W	495W
Relay Alarm Contact	1A @ DC24V	1A @ DC24V	1A @ DC24V	1A @ DC24V
Mechanical Characteristics				
Housing	Metal, IP30 Protection	Metal, IP30 Protection	Metal, IP30 Protection	Metal, IP30 Protection
Dimensions	54 x 142 x 99 mm	55 x 142 x 99 mm	55 x 142 x 99 mm	55 x 142 x 99 mm
Weight	2.5 lbs.	5.0 lbs.	5.0 lbs.	5.0 lbs.
Mounting	DIN-Rail & Wall Mounting	DIN-Rail & Wall Mounting	DIN-Rail & Wall Mounting	DIN-Rail & Wall Mounting
Environmental Limits				
Operating Temperature	STD: -10C to 70C EOT: -40C to 75C	STD: -10C to 70C EOT: -40C to 75C	STD: -10C to 70C EOT: -40C to 75C	STD: -10C to 70C EOT: -40C to 75C
Storage Temperature	-40C to 85C	-40C to 85C	-40C to 85C	-40C 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-61010-1, 2-201(Pending)	FCC, CE, UL-61010-1, 2-201(Pending)	FCC, CE, UL-61010-1, 2-201(Pending)	FCC, CE, UL-61010-1, 2-201(Pending)
Warranty	5 Years	5 Years	5 Years	5 Years



Industrial 10/100/1000 PoE Managed Switches



Model Names	LMP-1804G-SFP Series	LMP-2004G-SFP Series	LNP-2804GN-SFP-T
Specifications			
Total Port Count	18-Port	20-Port	26-Port
Technology			
Standards	IEEE 802.3, 802.3u, 802.3z, 802.3x, 802.1D, 802.1w, 802.1p, 802.1Q, 802.1ab, 802.3af/at, ITU-T G.8032	IEEE 802.3, 802.3u, 802.3z, 802.3x, 802.1D, 802.1w, 802.1p, 802.1Q, 802.1ab, 802.3af/at, ITU-T G.8032	IEEE 802.3, 802.3u, 802.3z, 802.3x, 802.1D, 802.1w, 802.1p, 802.1Q, 802.1ab, 802.3af/at,
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
Industrial Protocol	ModbusTCP	ModbusTCP	-
Jumbo Frame Support	9.6Kbytes	9.6Kbytes	9.6Kbytes
MAC Table Size	8K	8K	8K
Interface			
Ethernet Port	14*10/100/1000Tx (PoE/PoE+), Auto MDI Connection	16*10/100/1000Tx (PoE/PoE+) Auto MDI Connection	24*10/100/1000Tx (PoE/PoE+), Auto MDI/MDIX 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	4*100/1000 SFP Slots	4*100/1000 SFP Slots	4*GigE Combo (4*10/100/1000Tx + 4*100/1000 SFP)
Wavelength	Refer to SFP Module	Refer to SFP Module	Refer to SFP Module
Serial Console	1*RS232 (RJ45 Port)	1*RS232 (RJ45 Port)	1*RS232 (RJ45 Port)
Configuration Backup	USB	USB	USB
Network Management & Control			
System Configuration	Web Console, Telnet, CLI	Web Console, Telnet, CLI	Web Console, Telnet, CLI
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 Proprietary Ring Redundancy Recovery <20ms
IEEE 802.1Q VLAN	Port Based, Tag Based, 1 to 4094	Port Based, Tag Based, 1 to 4094	Port Based, Tag Based, 1 to 4094
QoS	Provides 8 Priority Queues per Port	Provides 8 Priority Queues per Port	Provides 8 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
PoE Ping Alert	Yes	Yes	Yes
System Warning Email Alert	By Exception through Email	By Exception through Email	By Exception through Email
Power Requirements			
Input Voltage	48 to 55VDC, Redundant Input	48 to 55VDC, Redundant Input	48 to 55VDC, Redundant Input
Connection	1 Removable 6-Contact Terminal Block	1 Removable 6-Contact Terminal Block	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	495W	495W	735W
Relay Alarm Contact	1A @ DC24V	1A @ DC24V	1A @ DC24V
Mechanical Characteristics			
Housing	Metal, IP30 Protection	Metal, IP30 Protection	Metal, IP30 Protection
Dimensions	55 x 142 x 99 mm	55 x 142 x 99 mm	440 x 280 x 44 mm
Weight	5.0 lbs.	5.0 lbs.	10.0 lbs.
Mounting	DIN-Rail & Wall Mounting	DIN-Rail & Wall Mounting	DIN-Rail & Wall Mounting
Environmental Limits			
Operating Temperature	STD: -10C to 70C EOT: -40C to 75C	STD: -10C to 70C EOT: -40C to 75C	EOT: -40C to 75C
Storage Temperature	-40C to 85C	-40C to 85C	-40C 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-61010-1, 2-201(Pending)	FCC, CE, UL-61010-1, 2-201(Pending)	FCC, CE, UL(Pending)
Warranty	5 Years	5 Years	5 Years

Product Showcase

Application Notes

Industrial Ethernet

Media Converters

Industrial Wireless

Industrial Serial Connectivity

SFP Modules

Accessories

Ordering Information Industrial Ethernet Switches

Name	Description
Industrial 10/100 Unmanaged Ethernet Switches	
LNX-500A	5-Port 10/100TX Slim Industrial Ethernet Switch
LNX-500A-T	5-Port 10/100TX Slim Industrial Ethernet Switch, Extended Operating Temperature (-40C to 80C)
LNX-C500	Compact 5-Port Industrial Unmanaged Ethernet Switch w/5*10/100TX
LNX-C500-T	Compact 5-Port Industrial Unmanaged Ethernet Switch w/5*10/100TX; EOT: -40C to 75C
LNX-0500-M12-67 (Preliminary)	5-Port IP-67 Industrial Unmanaged Ethernet Switch w/5*10/100TX M12 A-Coded Connectors
LNX-0500-M12-67-T (Preliminary)	5-Port IP-67 Industrial Unmanaged Ethernet Switch w/5*10/100TX M12 A-Coded Connectors; EOT: -40C to 75C
LNX-0501-M	5-Port Slim Industrial Ethernet Switch w/1 Fiber Port, Multi-Mode, SC Connector
LNX-0501-M-T	5-Port Slim Industrial Ethernet Switch w/1 Fiber Port, Multi-Mode, EOT (-40C to 80C)
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 (-40C to 80C)
LNX-0501-S3	5-Port Slim Industrial Ethernet Switch w/1 Fiber Port, Single-Mode 30km, SC Connector
LNX-0501-S3-T	5-Port Slim Industrial Ethernet Switch w/1 Fiber Port, Single-Mode 30km, EOT (-40C to 80C)
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 (-40C to 80C)
LNX-0602-M	6-Port Slim Industrial Ethernet Switch w/2 Fiber Ports, Multi-Mode, SC Connector
LNX-0602-M-T	6-Port Slim Industrial Ethernet Switch w/2 Fiber Ports, Multi-Mode, EOT (-40C to 80C)
LNX-0602-S3	6-Port Slim Industrial Ethernet Switch w/2 Fiber Ports, Single-Mode 30km, SC Connector
LNX-0602-S3-T	6-Port Slim Industrial Ethernet Switch w/2 Fiber Ports, Single-Mode 30km, EOT (-40C - 80C)
LNX-0602-ST-M	6-Port Slim Industrial Ethernet Switch w/2 Fiber Ports, Multi-Mode, ST Connectors
LNX-0602-ST-M-T	6-Port Slim Industrial Ethernet Switch w/2 Fiber Ports, Multi-Mode, ST Connectors, EOT: -40C to 80C
LNX-0602-ST-S3	6-Port Slim Industrial Ethernet Switch w/2 Fiber Ports, Single-Mode 30km, ST Connectors
LNX-0602-ST-S3-T	6-Port Slim Industrial Ethernet Switch w/2 Fiber Ports, Single-Mode 30km, ST Connectors, EOT: -40C to 80C
LNX-800A	8-Port Slim Industrial Ethernet Switch
LNX-800A-T	8-Port Slim Industrial Ethernet Switch, EOT -40C to 80C
LNX-0800-M12-67 (Preliminary)	8-Port IP-67 Industrial Unmanaged Ethernet Switch w/5*10/100TX M12 A-Coded Connectors
LNX-0800-M12-67-T (Preliminary)	8-Port IP-67 Industrial Unmanaged Ethernet Switch w/5*10/100TX M12 A-Coded Connectors; EOT: -40C to 75C
Industrial Gigabit 10/100/1000 Unmanaged Ethernet Switches	
LNX-500AG	5 10/100/1000T Port Industrial Ethernet Switch
LNX-500AG-T	5 10/100/1000T Port Industrial Ethernet Switch, Extended Operating Temperature -40C to 80C
LNX-C500G	Compact 5-Port Industrial Gigabit Unmanaged Ethernet Switch w/5*10/100TX
LNX-C500G-T	Compact 5-Port Industrial Gigabit Unmanaged Ethernet Switch w/5*10/100TX; EOT: -40C to 75C
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: -40C 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: -40C to 75C
LNX-0702C-SFP	7-Port Industrial Unmanaged Ethernet Switch, w/5*10/100Tx + 2*GigE Combo Ports
LNX-0702C-SFP-T	7-Port Industrial Unmanaged Ethernet Switch, w/5*10/100Tx + 2*GigE Combo Ports; EOT: -40C 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: -40C 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:-40C to 80C
LNX-0802C-SFP	8-Port Industrial Unmanaged Ethernet Switch, w/8*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/8*10/100Tx + 2*GigE Combo Ports (2*10/100/1000T RJ45, and 2*100/1000 SFP); EOT: -40C to 75C
LNX-1002C-SFP	10-Port Industrial Unmanaged Ethernet Switch, w/8*10/100Tx + 2*GigE Combo Ports (2*10/100/1000T RJ45, and 2*100/1000 SFP)
LNX-1002C-SFP-T	10-Port Industrial Unmanaged Ethernet Switch, w/8*10/100Tx + 2*GigE Combo Ports (2*10/100/1000T RJ45, and 2*100/1000 SFP); EOT: -40C 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; ETO: -40C to 75C
LNX-1002G-10G-SFP (Preliminary)	10-Port Industrial 10-Gigabit Unmanaged Ethernet Switch, w/8*10/100/1000Tx + 2*10G SFP+ Slots; -40C to 60C
LNX-1202G-10G-SFP (Preliminary)	12-Port Industrial 10-Gigabit Unmanaged Ethernet Switch, w/10*10/100/1000Tx + 2*10G SFP+ Slots; -40C to 60C
LNX-1202G-SFP	12-Port Industrial Unmanaged Ethernet Switch, w/10*10/100/1000Tx + 2*100/1000 SFP Slots
LNX-1202G-SFP-T	12-Port Industrial Unmanaged Ethernet Switch, w/10*10/100/1000Tx + 2*100/1000 SFP Slots EOT: -40C to 75C
LNX-1204G-SFP	12-Port Industrial Unmanaged Ethernet Switch, w/8*10/100/1000Tx + 4*100/1000 SFP Slots
LNX-1204G-SFP-T	12-Port Industrial Unmanaged Ethernet Switch, w/8*10/100/1000Tx + 4*100/1000 SFP Slots; EOT: -40C to 75C
LNX-1600G (Preliminary)	16-Port Industrial Gigabit Unmanaged Ethernet Switch, w/16*10/100/1000Tx
LNX-1600G-T (Preliminary)	16-Port Industrial Gigabit Unmanaged Ethernet Switch, w/16*10/100/1000Tx; EOT: -40C to 75C
LNX-1604G-SFP	16-Port Industrial Gigabit Unmanaged Ethernet Switch, w/12*10/100/1000Tx + 4*100/1000 SFP Slots
LNX-1604G-SFP-T	16-Port Industrial Gigabit Unmanaged Ethernet Switch, w/12*10/100/1000Tx + 4*100/1000 SFP Slots; EOT: -40C to 75C
LNX-1802G-SFP (Preliminary)	18-Port Industrial Gigabit Unmanaged Ethernet Switch, w/16*10/100/1000Tx + 2*100/1000 SFP Slots
LNX-1802G-SFP-T (Preliminary)	18-Port Industrial Gigabit Unmanaged Ethernet Switch, w/16*10/100/1000Tx + 2*100/1000 SFP Slots; EOT: -40C to 75C
LNX-2004G-SFP (Preliminary)	20-Port Industrial Gigabit Unmanaged Ethernet Switch, w/16*10/100/1000Tx + 4*100/1000 SFP Slots
LNX-2004G-SFP-T (Preliminary)	20-Port Industrial Gigabit Unmanaged Ethernet Switch, w/16*10/100/1000Tx + 4*100/1000 SFP Slots; EOT: -40C to 75C
LNX-2602G-SFP	26-Port 1U Rackmount Industrial Gigabit Unmanaged Ethernet Switch, w/24*10/100/1000Tx + 2*Gigabit Combo Ports (2*10/100/1000Tx RJ45, or 2*100/1000 SFP)
LNX-2602G-SFP-T	26-Port 1U Rackmount Industrial Gigabit Unmanaged Ethernet Switch, w/24*10/100/1000Tx + 2*Gigabit Combo Ports (2*10/100/1000Tx RJ45, or 2*100/1000 SFP); EOT: -40C to 75C

**Industrial 10/100 Fast Ethernet 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: -40C to 75C
LMX-0600	6-Port Industrial Managed Ethernet Switch, w/6*10/100Tx
LMX-0600-T	6-Port Industrial Managed Ethernet Switch, w/6*10/100Tx; EOT: -40C to 75C
LMX-0602-M	6-Port Industrial Managed Ethernet Switch, w/4*10/100Tx + 2*100Fx Multi-Mode 2km, SC Connector
LMX-0602-M-T	6-Port Industrial Managed Ethernet Switch, w/4*10/100Tx + 2*100Fx Multi-Mode 2km; EOT: -40C to 75C, SC Connector
LMX-0602-S3	6-Port Industrial Managed Ethernet Switch, w/4*10/100Tx + 2*100Fx Single-Mode 30km, SC Connector
LMX-0602-S3-T	6-Port Industrial Managed Ethernet Switch, w/4*10/100Tx + 2*100Fx Single-Mode 30km; EOT: -40C to 75C, SC Connector
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: -40C 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: -40C to 75C
LMX-0800	8-Port Industrial Managed Ethernet Switch, w/8*10/100Tx
LMX-0800-T	8-Port Industrial Managed Ethernet Switch, w/8*10/100Tx; EOT: -40C to 75C
LMX-0802-M	8-Port Industrial Managed Ethernet Switch, w/6*10/100Tx + 2*100Fx Multi-Mode 2km, SC Connector
LMX-0802-M-T	8-Port Industrial Managed Ethernet Switch, w/6*10/100Tx + 2*100Fx Multi-Mode 2km; EOT: -40C to 75C, SC Connector
LMX-0802-ST-M	8-Port Industrial Managed Ethernet Switch, w/6*10/100Tx + 2*100Fx Multi-Mode 2km; ST Connector
LMX-0802-ST-M-T	8-Port Industrial Managed Ethernet Switch, w/6*10/100Tx + 2*100Fx Multi-Mode 2km; ST Connector, EOT: -40C to 75C
LMX-0802-S3	8-Port Industrial Managed Ethernet Switch, w/6*10/100Tx + 2*100Fx Single-Mode 30km, SC Connector
LMX-0802-S3-T	8-Port Industrial Managed Ethernet Switch, w/6*10/100Tx + 2*100Fx Single-Mode 30km; EOT: -40C to 75C, SC Connector
LMX-0802-ST-S3	8-Port Industrial Managed Ethernet Switch, w/6*10/100Tx + 2*100Fx Single-Mode 30km; ST Connector
LMX-0802-ST-S3-T	8-Port Industrial Managed Ethernet Switch, w/6*10/100Tx + 2*100Fx Single-Mode 30km; ST Connector, EOT: -40C to 75C

Industrial Gigabit 10/100/1000 Managed Ethernet Switches

LMX-0501G-SFP	5-Port Industrial Gigabit Managed Ethernet Switch, w/4*10/100/1000Tx + 1*100/1000 SFP Slot
LMX-0501G-SFP-T	5-Port Industrial Gigabit Managed Ethernet Switch, w/4*10/100/1000Tx + 1*100/1000 SFP Slot; EOT -40C to 75C
LMX-0601G-SFP	6-Port Industrial Gigabit Managed Ethernet Switch, w/5*10/100/1000Tx + 1*100/1000 SFP Slot
LMX-0601G-SFP-T	6-Port Industrial Gigabit Managed Ethernet Switch, w/5*10/100/1000Tx + 1*100/1000 SFP Slot; EOT -40C to 75C
LMX-0800G	8-Port Industrial Gigabit Managed Ethernet Switch, w/8*10/100/1000Tx
LMX-0800G-T	8-Port Industrial Gigabit Managed Ethernet Switch, w/8*10/100/1000Tx; EOT: -40C to 75C
LMX-0804G-SFP	8-Port Industrial Gigabit Managed Ethernet Switch, w/4*10/100/1000Tx + 4*100/1000 SFP Slots
LMX-0804G-SFP-T	8-Port Industrial Gigabit Managed Ethernet Switch, w/4*10/100/1000Tx + 4*100/1000 SFP Slots; EOT: -40C to 75C
LMX-1002C-SFP	10-Port Industrial Gigabit Managed Ethernet Switch, w/8*10/100Tx + 2*Gigabit Combo Ports (2*10/100/1000Tx RJ45, or 2*100/1000 SFP Slots)
LMX-1002C-SFP-T	10-Port Industrial Gigabit Managed Ethernet Switch, w/8*10/100Tx + 2*Gigabit Combo Ports (2*10/100/1000Tx RJ45, or 2*100/1000 SFP Slots); EOT: -40C to 75
LMX-1002G-SFP	10-Port Industrial Gigabit Managed Ethernet Switch, w/8*10/100/1000Tx + 2*100/1000 SFP Slots
LMX-1002G-SFP-T	10-Port Industrial Gigabit Managed Ethernet Switch, w/8*10/100/1000Tx + 2*100/1000 SFP Slots; EOT: -40C to 75C
LMX-1202G-SFP	12-Port Industrial Gigabit Managed Ethernet Switch, w/10*10/100/1000Tx + 2*100/1000 SFP Slots
LMX-1202G-SFP-T	12-Port Industrial Gigabit Managed Ethernet Switch, w/10*10/100/1000Tx + 2*100/1000 SFP Slots; EOT: -40C to 75C
LMX-1204G-SFP	12-Port Industrial Gigabit Managed Ethernet Switch, w/8*10/100/1000Tx + 4*100/1000 SFP Slots
LMX-1204G-SFP-T	12-Port Industrial Gigabit Managed Ethernet Switch, w/8*10/100/1000Tx + 4*100/1000 SFP Slots; EOT: -40C to 75C
LMX-1600G (Preliminary)	16-Port Industrial Gigabit Managed Ethernet Switch, w/16*10/100/1000Tx
LMX-1600G-T (Preliminary)	16-Port Industrial Gigabit Managed Ethernet Switch, w/16*10/100/1000Tx; EOT: -40C to 75C
LMX-1604G-SFP (Preliminary)	16-Port Industrial Gigabit Managed Ethernet Switch, w/12*10/100/1000Tx + 4*100/1000 SFP Slots
LMX-1604G-SFP-T (Preliminary)	16-Port Industrial Gigabit Managed Ethernet Switch, w/12*10/100/1000Tx + 4*100/1000 SFP Slots; EOT: -40C to 75C
LMX-1802G-SFP (Preliminary)	18-Port Industrial Gigabit Managed Ethernet Switch, w/16*10/100/1000Tx + 2*100/1000 SFP Slots
LMX-1802G-SFP-T (Preliminary)	18-Port Industrial Gigabit Managed Ethernet Switch, w/16*10/100/1000Tx + 2*100/1000 SFP Slots; EOT: -40C to 75C
LMX-2004G-SFP (Preliminary)	20-Port Industrial Gigabit Managed Ethernet Switch, w/16*10/100/1000Tx + 4*100/1000 SFP Slots
LMX-2004G-SFP-T (Preliminary)	20-Port Industrial Gigabit Managed Ethernet Switch, w/16*10/100/1000Tx + 4*100/1000 SFP Slots; EOT: -40C to 75C

Industrial 10/100 PoE Unmanaged Ethernet Switches

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: -40C to 75C
LNP-0500-24	5-Port Industrial PoE+ Unmanaged Ethernet Switch, w/4*10/100Tx (30W/Port) + 1*10/100Tx, 12 to 36VDC
LNP-0500-24-T	5-Port Industrial PoE+ Unmanaged Ethernet Switch, w/4*10/100Tx (30W/Port) + 1*10/100Tx, 12 to 36VDC, EOT: -40C to 75C
LNP-0501-M	5-Port Industrial PoE+ Unmanaged Ethernet Switch, w/4*10/100Tx (30W/Port) + 1*100Fx Multi-Mode 2km, SC Connector
LNP-0501-M-T	5-Port Industrial PoE+ Unmanaged Ethernet Switch, w/4*10/100Tx (30W/Port) + 1*100Fx Multi-Mode 2km; EOT: -40C to 75C, SC Connector
LNP-0501-ST-M	5-Port Industrial PoE+ Unmanaged Ethernet Switch w/4*10/100Tx (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: -40C to 75C
LNP-0501-M-24	5-Port Industrial PoE+ Unmanaged Ethernet Switch, w/4*10/100Tx (30W/Port) + 1*100Fx Multi-Mode 2km, 12VDC-36VDC, SC Connector
LNP-0501-M-24-T	5-Port Industrial PoE+ Unmanaged Ethernet Switch, w/4*10/100Tx (30W/Port) + 1*100Fx Multi-Mode 2km, 12VDC-36VDC; EOT: -40C to 75C, SC Connector
LNP-0501-S3	5-Port Industrial PoE+ Unmanaged Ethernet Switch, w/4*10/100Tx (30W/Port) + 1*100Fx Single-Mode 30km, SC Connector
LNP-0501-S3-T	5-Port Industrial PoE+ Unmanaged Ethernet Switch, w/4*10/100Tx (30W/Port) + 1*100Fx Single-Mode 30km; EOT: -40C to 75C, SC Connector
LNP-0501-ST-S3	5-Port Industrial PoE+ Unmanaged Ethernet Switch, w/4*10/100Tx (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: -40C to 75C
LNP-0501-S3-24	5-Port Industrial PoE+ Unmanaged Ethernet Switch, w/4*10/100Tx (30W/Port) + 1*100Fx Single-Mode 30km, 12VDC-36VDC, SC Connector
LNP-0501-S3-24-T	5-Port Industrial PoE+ Unmanaged Ethernet Switch, w/4*10/100Tx (30W/Port) + 1*100Fx Single-Mode 30km, 12VDC-36VDC; EOT: -40C to 75C, SC Connector
LNP-0602-M	6-Port Industrial PoE+ Unmanaged Ethernet Switch, w/4*10/100Tx (30W/Port), 2*100Fx Multi-Mode 2km, SC Connector
LNP-0602-M-T	6-Port Industrial PoE+ Unmanaged Ethernet Switch, w/4*10/100Tx (30W/Port), 2*100Fx Multi-Mode 2km; EOT: -40C to 75C, SC Connector

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LMP-0501-S3	5-Port Industrial PoE+ Managed Ethernet Switch, w/4*10/100Tx (30W/Port), and 1*100Fx Single-Mode 30km
LMP-0501-S3-T	5-Port Industrial PoE+ Managed Ethernet Switch, w/4*10/100Tx (30W/Port), and 1*100Fx Single-Mode 30km; EOT: -40C to 75C, SC Connector
LMP-0501-ST-S3	5-Port Industrial PoE+ Managed Ethernet Switch, w/4*10/100Tx (30W/Port), and 1*100Fx Single-Mode 30km, ST Connector, SC Connector
LMP-0501-ST-S3-T	5-Port Industrial PoE+ Managed Ethernet Switch, w/4*10/100Tx (30W/Port), and 1*100Fx Single-Mode 30km; ST Connector; EOT: -40C to 75C
LMP-0501-S3-24	5-Port Industrial PoE+ Managed Ethernet Switch, w/4*10/100Tx (30W/Port), and 1*100Fx Single-Mode 30km, 12 to 36VDC, SC Connector
LMP-0501-S3-24-T	5-Port Industrial PoE+ Managed Ethernet Switch, w/4*10/100Tx (30W/Port), and 1*100Fx Single-Mode 30km, 12 to 36VDC; EOT: -40C to 75C, SC Connector
LMP-0501-ST-S3-24	5-Port Industrial PoE+ Managed Ethernet Switch, w/4*10/100Tx (30W/Port), and 1*100Fx Single-Mode 30km, ST Connector, 12 to 36VDC
LMP-0501-ST-S3-24-T	5-Port Industrial PoE+ Managed Ethernet Switch, w/4*10/100Tx (30W/Port), and 1*100Fx Single-Mode 30km, ST Connector, 12 to 36VDC; EOT: -40C to 75C
LMP-0600	6-Port Industrial PoE+ Managed Ethernet Switch, with 6*10/100Tx (30W/Port)
LMP-0600-T	6-Port Industrial PoE+ Managed Ethernet Switch, with 6*10/100Tx (30W/Port); EOT: -40C to 75C
LMP-0600-24	6-Port Industrial PoE+ Managed Ethernet Switch, with 4*10/100Tx (30W/Port) + 2*10/100Tx; 12 to 36VDC
LMP-0600-24-T	6-Port Industrial PoE+ Managed Ethernet Switch, with 4*10/100Tx (30W/Port) + 2*10/100Tx; 12 to 36VDC, EOT: -40C to 75C
LMP-0602-M	6-port Industrial PoE+ Managed Ethernet Switch, with 4*10/100Tx (30W/Port), and 2*100Fx SC Connector, Multi-Mode 2km
LMP-0602-M-T	6-Port Industrial PoE+ Managed Ethernet Switch, with 4*10/100Tx (30W/Port), and 2*100Fx SC Connector, Multi-Mode 2km, EOT: -40C to 75C
LMP-0602-ST-M	6-port Industrial PoE+ Managed Ethernet Switch, with 4*10/100Tx (30W/Port), and 2*100Fx ST Connector, Multi-Mode 2km
LMP-0602-ST-M-T	6-Port Industrial PoE+ Managed Ethernet Switch, with 4*10/100Tx (30W/Port), and 2*100Fx ST Connector, Multi-Mode 2km, EOT: -40C to 75C
LMP-0602-M-24	6-Port Industrial PoE+ Managed Ethernet Switch, w/4*10/100Tx (30W/Port), and 2*100Fx Multi-Mode 2km, 12 to 36VDC, SC Connector
LMP-0602-M-24-T	6-Port Industrial PoE+ Managed Ethernet Switch, w/4*10/100Tx (30W/Port), and 2*100Fx Multi-Mode 2km, 12 to 36VDC; EOT: -40C to 75C, SC Connector
LMP-0602-ST-M-24	6-Port Industrial PoE+ Managed Ethernet Switch, w/4*10/100Tx (30W/Port), and 2*100Fx Multi-Mode 2km, ST Connector, 12 to 36VDC
LMP-0602-ST-M-24-T	6-Port Industrial PoE+ Managed Ethernet Switch, w/4*10/100Tx (30W/Port), and 2*100Fx Multi-Mode 2km, ST Connector, 12 to 36VDC; EOT: -40C to 75C
LMP-0602-S3	6-port Industrial PoE+ Managed Ethernet Switch, with 4*10/100Tx (30W/Port), and 2*100Fx SC Connector, Single-Mode 30km
LMP-0602-S3-T	6-Port Industrial PoE+ Managed Ethernet Switch, with 4*10/100Tx (30W/Port), and 2*100Fx SC Connector, Single-Mode 30km, EOT: -40C to 75C
LMP-0602-ST-S3	6-port Industrial PoE+ Managed Ethernet Switch, with 4*10/100Tx (30W/Port), and 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), and 2*100Fx ST Connector, Single-Mode 30km, EOT: -40C to 75C
LMP-0602-S3-24	6-Port Industrial PoE+ Managed Ethernet Switch, w/4*10/100Tx (30W/Port), and 2*100Fx Single-Mode 30km, 12 to 36VDC, SC Connector
LMP-0602-S3-24-T	6-Port Industrial PoE+ Managed Ethernet Switch, w/4*10/100Tx (30W/Port), and 2*100Fx Single-Mode 30km, 12 to 36VDC; EOT: -40C to 75C, SC Connector
LMP-0602-ST-S3-24	6-Port Industrial PoE+ Managed Ethernet Switch, w/4*10/100Tx (30W/Port), and 2*100Fx Single-Mode 30km, ST Connector, 12 to 36VDC
LMP-0602-ST-S3-24-T	6-Port Industrial PoE+ Managed Ethernet Switch, w/4*10/100Tx (30W/Port), and 2*100Fx Single-Mode 30km, ST Connector, 12 to 36VDC; EOT: -40C 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*100/100/1000Tx + 1*100/1000 SFP Slot
LMP-0601G-SFP-T	6-Ports Industrial PoE+ Managed Ethernet Switch, w/4*10/100/1000Tx (30W/port) + 1*100/100/1000Tx + 1*100/1000 SFP Slot; EOT: -40C to 75C
LMP-0601G-SFP-24	6-Ports Industrial PoE+ Managed Ethernet Switch, w/4*10/100/1000Tx (30W/port) + 1*100/100/1000Tx + 1*100/1000 SFP Slot; 12 to 36VDC
LMP-0601G-SFP-24-T	6-Ports Industrial PoE+ Managed Ethernet Switch, w/4*10/100/1000Tx (30W/port) + 1*100/100/1000Tx + 1*100/1000 SFP Slot; 12 to 36VDC; EOT: -40C to 75C
LMP-0800G	8-Port Industrial Gigabit PoE+ Managed Ethernet Switch, w/8*10/100/1000Tx (30W/port)
LMP-0800G-T	8-Port Industrial Gigabit PoE+ Managed Ethernet Switch, w/8*10/100/1000Tx (30W/port); EOT: -40C to 75C
LMP-0800G-24	8-Port Industrial Gigabit PoE+ Managed Ethernet Switch, w/8*10/100/1000Tx (30W/port); 12 to 36VDC
LMP-0800G-24-T	8-Port Industrial Gigabit PoE+ Managed Ethernet Switch, w/8*10/100/1000Tx (30W/port); 12 to 36VDC, EOT: -40C to 75C
LMP-0804G	8-Port Industrial Gigabit PoE+ Managed Ethernet Switch, w/4*10/100/1000Tx (30W/port), + 4*100/1000 SFP Slots
LMP-0804G-T	8-Port Industrial Gigabit PoE+ Managed Ethernet Switch, w/4*10/100/1000Tx (30W/port), + 4*100/1000 SFP Slots; EOT: -40C to 75C
LMP-1002C-SFP	10-Port Industrial PoE+ Managed Ethernet Switch, w/8*10/100Tx (30W/port) + 2*GibE Combo Ports (2*10/100/1000Tx and 2*100/1000 SFP Slots)
LMP-1002C-SFP-T	10-Port Industrial PoE+ Managed Ethernet Switch, w/8*10/100Tx (30W/port) + 2*GibE Combo Ports (2*10/100/1000Tx and 2*100/1000 SFP Slots); EOT: -40C to 75C
LMP-1002C-SFP-24	10-Port Industrial PoE+ Managed Ethernet Switch, w/8*10/100Tx (30W/port) + 2*GibE Combo Ports (2*10/100/1000Tx and 2*100/1000 SFP Slots); 12 to 36VDC
LMP-1002C-SFP-24-T	10-Port Industrial PoE+ Managed Ethernet Switch, w/8*10/100Tx (30W/port) + 2*GibE Combo Ports (2*10/100/1000Tx and 2*100/1000 SFP Slots); 12 to 36VDC; EOT: -40C to 75C
LMP-1002G-SFP	10-Port Industrial PoE+ Managed Ethernet Switch, w/8*10/100/1000Tx (30W/port) + 2*100/1000 SFP Slots
LMP-1002G-SFP-T	10-Port Industrial PoE+ Managed Ethernet Switch, w/8*10/100/1000Tx (30W/port) + 2*100/1000 SFP Slot; EOT: -40C 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 to 36VDC
LMP-1002G-SFP-24-T	10-Port Industrial PoE+ Managed Ethernet Switch, w/8*10/100/1000Tx (30W/port) + 2*100/1000 SFP Slots, 12 to 36VDC; EOT: -40C to 75C
LMP-1202G-SFP	12-Port Industrial Gigabit PoE+ Managed Ethernet Switch, w/10*10/100/1000Tx (30W/port) + 2*100/1000 SFP Slots
LMP-1202G-SFP-T	12-Port Industrial Gigabit PoE+ Managed Ethernet Switch, w/10*10/100/1000Tx (30W/port) + 2*100/1000 SFP Slots; EOT: -40C to 75C
LMP-1204G-SFP	12-Port Industrial Gigabit PoE+ Managed Ethernet Switch, w/8*10/100/1000Tx (30W/port) + 4*100/1000 SFP Slots
LMP-1204G-SFP-T	12-Port Industrial Gigabit PoE+ Managed Ethernet Switch, w/8*10/100/1000Tx (30W/port) + 4*100/1000 SFP Slots; EOT: -40C to 75C
LMP-1604G-SFP (Preliminary)	16-Port Industrial Gigabit PoE+ Managed Ethernet Switch, w/14*10/100/1000Tx (30W/port) + 2*100/1000 SFP Slots
LMP-1604G-SFP-T (Preliminary)	16-Port Industrial Gigabit PoE+ Managed Ethernet Switch, w/14*10/100/1000Tx (30W/port) + 2*100/1000 SFP Slots; EOT: -40C to 75C
LMP-1802G-SFP (Preliminary)	18-Port Industrial Gigabit PoE+ Managed Ethernet Switch, w/16*10/100/1000Tx (30W/port), 2*10/100/1000Tx, + 2*100/1000 SFP Slots
LMP-1802G-SFP-T (Preliminary)	18-Port Industrial Gigabit PoE+ Managed Ethernet Switch, w/16*10/100/1000Tx (30W/port), 2*10/100/1000Tx, + 2*100/1000 SFP Slots; EOT: -40C to 75C
LMP-1804G-SFP (Preliminary)	18-Port Industrial Gigabit PoE+ Managed Ethernet Switch, w/14*10/100/1000Tx (30W/port), + 4*100/1000 SFP Slots
LMP-1804G-SFP-T (Preliminary)	18-Port Industrial Gigabit PoE+ Managed Ethernet Switch, w/14*10/100/1000Tx (30W/port), + 4*100/1000 SFP Slots; EOT: -40C to 75C
LMP-2004G-SFP (Preliminary)	20-Port Industrial Gigabit PoE+ Managed Ethernet Switch, w/16*10/100/1000Tx (30W/port), + 4*100/1000 SFP Slots
LMP-2004G-SFP-T (Preliminary)	20-Port Industrial Gigabit PoE+ Managed Ethernet Switch, w/16*10/100/1000Tx (30W/port), + 4*100/1000 SFP Slots; EOT: -40C to 75C
LMP-2804G-SFP (Preliminary)	28-Port Industrial 1U 19" Rackmount Gigabit PoE+ Managed Ethernet Switch, w/24*10/100/1000Tx (30W/port), + 4*GigE Combo (4*10/100/1000Tx + 4*100/1000 SFP)
LMP-2804GN-SFP-T (Preliminary)	28-Port Industrial 1U 19" Rackmount Gigabit PoE+ Managed Ethernet Switch, w/24*10/100/1000Tx (30W/port), + 4*GigE Combo (4*10/100/1000Tx + 4*100/1000 SFP); EOT: -40C to 75C

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Industrial Gigabit PoE/PoE+ Injectors/Splitters



Model Names	LNP-201AG-T	LNJ-0200G-T	LNP-101AG-T	LNS-0200G-T
Specifications				
Total Port Count	1-Port (PoE/PoE+ Injector)	1-Port (PoE/PoE++ Injector)	1-Port (PoE Splitter)	1-Port (PoE Splitter)
Technology				
Standards	IEEE 802.3,802.3u,802.3ab,802.3x,802.3af	IEEE 802.3,802.3u,802.3ab,802.3x,802.3af/at	IEEE 802.3,802.3u,802.3ab,802.3x,802.3af	IEEE 802.3,802.3u,802.3ab,802.3x,802.3af/at
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				
Jumbo Frame Support	-	9K	-	9K
Interface				
Ethernet Port	1*10/100/1000Tx (Data & Power Out) 1*10/100/1000Tx (Data)	1*10/100/1000Tx (Data & Power Out) 1*10/100/1000Tx (Data)	1*10/100/1000Tx (Data & Power In) 1*10/100/1000Tx (Data)	1*10/100/1000Tx (Data & Power In) 1*10/100/1000Tx (Data)
PoE Pin	V+, V+, V-, V-, for pin 1, 2, 3, 6 (Endspan, MDI-X Alternative A)	V+, V+, V-, V-, for pin 1, 2, 3, 6 (Endspan, MDI-X Alternative A)	Input Pin: 1,2,4,5 (V+V+), 3,6,7,8 (V-V-)	Input Pin: 1,2,4,5 (V+V+), 3,6,7,8 (V-V-)
PoE Power Output	-	-	-	-
Protection				
EFT Protection	3,000 VDC for Power Line	2,000 VDC for Power Line	3,000 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
Power Requirements				
Input Voltage	24 to 48VDC, Redundant Input	48 to 55VDC, Redundant Input	44 to 57VDC	44 to 57VDC
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	30W	30W	12.95W max. (0.539A @ 24VDC)	25.4W max. (0.539A @ 24VDC)
Power Consumption	33.36 Watts @ 24VDC	38.6 Watts @ 24VDC	17.76W @ 48VDC	30.5 Watts @ 48VDC
Mechanical Characteristics				
Housing	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
Weight	1.0 lbs.	1.0 lbs.	1.0 lbs.	1.0 lbs.
Mounting	DIN-Rail & Wall Mounting	DIN-Rail & Wall Mounting	DIN-Rail & Wall Mounting	DIN-Rail & Wall Mounting
Environmental Limits				
Operating Temperature	EOT: -40C to 75C	EOT: -40C to 75C	EOT: -40C to 80C	EOT: -40C to 75C
Storage Temperature	-40C to 85C	-40C to 85C	-40C to 85C	-40C 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, UL61010-1, 61010-2-201 (Pending)	FCC, CE, UL, cUL	FCC, CE, UL61010-1, 61010-2-201 (Pending)
Warranty	5 Years	5 Years	5 Years	5 Years

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Industrial 10/100/1000 (PoE/PoE+) Ethernet Media Converters



Model Names	IMC-C1000-SFP Series	IMP-C1000-SFP Series
Type	10/100/1000Tx to Gigabit Fiber	10/100/1000Tx (PSE: 30w) to Gigabit Fiber
Technology		
IEEE Standard	802.3, 802.3u, 802.3ab, 802.3x, 8023z	802.3, 802.3u, 802.3ab, 802.3x, 8023z, 802.3af/at
Processing Type	Store and Forward	Store and Forward
Transmission Distance	Refer to SFP Module	Refer to SFP Module
Transmission Speed	Up to 1000Mbps	Up to 1000Mbps
Interface		
RJ45 Ports	1*10/100/1000Tx	1*10/100/1000Tx (PSE: 30W max)
Fiber Port	1*100/1000 SFP Slot	1*100/1000 SFP Slot
PoE Pin Out	-	V+, V+, V-, V-, for pin 1, 2, 3, 6 (Endspan, MDI-X Alternative A)
Wavelength	Refer to SFP Module	Refer to SFP Module
Properties		
Jumo Frame Support	9K	9K
Dip Switch	Link Lost Forwarding (LLF) & Link Fault Pass Through (LFP)	Link Lost Forwarding (LLF) & Link Fault Pass Through (LFP)
Protection		
EFT Protection	2,000 VDC for Power Line	2,000 VDC for Power Line
ESD Protection	6,000 VDC for Ethernet	6,000 VDC for Ethernet
Power Requirements		
Input Voltage	12 to 48VDC, Redundant Input	48 to 55VDC, Redundant Input
Fault Output	1*Relay Output	1*Relay Output
Connection	1 Removable 6-Contact Terminal Block	1 Removable 6-Contact Terminal Block
Reverse Polarity Protection	Yes	Yes
Power Consumption	1.8W	1.8W for System, (36.8W with PoE Loaded)
Mechanical Characteristics		
Housing	Metal, IP30 Protection	Metal, IP30 Protection
Dimensions	26 x 95 x 75 mm	26 x 95 x 75 mm
Weight	0.55 lbs.	0.55 lbs.
Mounting	DIN-Rail & Wall Mounting	DIN-Rail & Wall Mounting
Environmental Limits		
Operating Temperature	STD: -10C to 70C EOT: -40C to 75C	STD: -10C to 70C EOT: -40C to 75C
Storage Temperature	-40C to 85C	-40C to 85C
Ambient Relative Humidity	5 to 95%, (Non-Condensing)	5 to 95%, (Non-Condensing)
Regulatory Approvals		
EMI	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
Free Fall/Shock/Vibration	IEC60068-2-32/27/6	IEC60068-2-32/27/6
Green	RoHS Compliant	RoHS Compliant
Certification5	FCC, CE, UL 61010-2-210(Pending), C1D2 (Pending)	FCC, CE, UL 61010-2-210(Pending), C1D2 (Pending)
Warranty	5 Years	5 Years



19" Rackmount Media Converter Chassis



Model Names	FCU-RACK16S	FCU-RACK16-AC/DC Series
Type	16-Slot 2U Chassis	16-Slot 2U Chassis
Hardware Specification		
Number of Module Slots	16 Slots	16 Slots
Chassis Fans	3*Rear Fans	1*Rear Fan
LED Indicators	Power Activity	Power Activity
Dual Power Supply Option	No	Yes
Power Requirements		
Output Voltage	DC 5V, 1.6A	DC 5V
Power Consumption	9.5W	9.5W
Mechanical Characteristics		
Housing	Iron / Steel / Plastic	Iron / Steel / Plastic
Dimensions	440 x 285 x 88 mm	440 x 385 x 88 mm
Weight	15.0 lbs.	23.76 lbs.
Mounting	19" Rackmount Type	19" Rackmount Type
Environmental Limits		
Operating Temperature	0C to 50C	0C to 50C
Storage Temperature	-20C to 60C	-20C to 60C
Ambient Relative Humidity	5 to 90%, (Non-Condensing)	5 to 90%, (Non-Condensing)
Associated Media Converters		
Media Converters	FCU-100 Series, FCU-3002A Series,	FCU-100 Series, FCU-3002A Series,
Regulatory Approvals		
Emission / Safety	FCC Class A, CE, RoHS	FCC Class A, CE, RoHS
Warranty	5 Years	5 Years

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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	0C to 50C	0C to 50C	0C to 50C	0C to 50C
Storage Temperature	-20C to 60C	-20C to 60C	-10C to 70C	-10C 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-2805SFP Series	FCU-2805P-SFP Series	FCU-3002A Series	FCU-3002A WDM Series
Type	10/100/1000Tx to 1000 Fiber	10/100/1000Tx PoE to 1000 Fiber	10/100/1000Tx to 1000 Fiber	10/100/1000Tx to 1000 WDM Fiber
Chassis Mountable	Yes	No	Yes	Yes
Technology				
IEEE Standard	802.3, 802.3u, 802.3ab, 802.3z	802.3, 802.3u, 802.3ab, 802.3z, 802.3at/af	802.3, 802.3u, 802.3ab, 802.3z, 802.3x	802.3, 802.3u, 802.3ab, 802.3z, 802.3x
Processing Type	Store and Forward	Store and Forward	Store and Forward	Store and Forward
Transmission Distance	Refer to SFP Module	Refer to SFP Module	Multi-Mode 550m Single-Mode up to 20km	Multi-Mode 550m Single-Mode up to 80km
Transmission Speed	Up to 1000Mbps	Up to 1000Mbps	Up to 1000Mbps	Up to 1000Mbps
Interface				
RJ45 Ports	1*10/100/1000Tx	1*10/100/1000Tx (Up to 30W PoE)	1*10/100/1000Tx	1*10/100/1000Tx
Fiber Port	1*1000 SFP Slot	1*1000 SFP Slot	1*1000Sx/Lx (SC Connector)	1*1000Sx/Lx (SC Connector)
PoE Pin Out	-	V+, V+, V-, V-, for pin 1, 2, 3, 6 (Endspan, MDI-X Alternative A)	-	-
Wavelength	Refer to SFP Module	Refer to SFP Module	850nm (Multi-Mode) 1310nm (Single-Mode)	1310nm, 1550nm (Multi-Mode) 1310nm, 1550nm / 1310nm, 1490nm (Single-Mode)
Properties				
Jumo Frame Support	-	-	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, 2A	52V DC	DC 5V	DC 5V
Connection	Barrel Adapter	Barrel Adapter	Barrel Adapter	Barrel Adapter
Power Consumption	5W	5W (35W w/ PoE)	3W	3W
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	71 x 94 x 26 mm	71 x 94 x 26 mm
Weight	0.44 lbs.	0.44 lbs.	1.32 lbs.	1.32 lbs.
Mounting	Rack, DIN-Rail & Wall Mounting	Rack, DIN-Rail & Wall Mounting	DIN-Rail & Wall Mounting	DIN-Rail & Wall Mounting
Environmental Limits				
Operating Temperature	0C to 50C	0C to 50C	0C to 50C	0C to 50C
Storage Temperature	-10C to 75C	-10C to 75C	-20C to 60C	-20C to 60C
Ambient Relative Humidity	5 to 95%, (Non-Condensing)	5 to 95%, (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
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	5 Years	5 Years

Product Showcase

Application Notes

Industrial Ethernet

Media Converters

Industrial Wireless

Industrial Serial Connectivity

SFP Modules

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10/100/1000 Ethernet Media Converters (Unmanaged)



Model Names	FCU-3002A-SFP Series	FCU-3102SFP-SFP-DR	FCU-5002-SFP+
Type	10/100/1000Tx to 1000 Fiber	10/100/1000Tx to 1000 Fiber	10G SFP+ to 10G SFP+
Chassis Mountable	Yes	Yes	Yes
Technology			
IEEE Standard	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
Transmission Distance	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 10,000Mbps
Interface			
RJ45 Ports	1*10/100/1000Tx	-	-
Fiber Port	1*1000 SFP Slot	2*100/1000 SFP Slots	2*10G SFP+ Slots
PoE Pin Out	-	-	-
Wavelength	Refer to SFP Module	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)
Power Requirements			
Input Voltage	DC 5V	DC 5V	DC 5V
Connection	Barrel Adapter	Barrel Adapter	Barrel Adapter
Power Consumption	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
Dimensions	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.
Mounting	DIN-Rail & Wall Mounting	DIN-Rail & Wall Mounting	DIN-Rail & Wall Mounting
Environmental Limits			
Operating Temperature	0C to 50C	0C to 50C	0C to 50C
Storage Temperature	-20C to 60C	-20C to 60C	-20C to 60C
Ambient Relative Humidity	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
Regulatory Approvals			
Green	RoHS Compliant	RoHS Compliant	RoHS Compliant
Certifications	FCC, CE	FCC, CE	FCC, CE
Warranty	5 Years	5 Years	5 Years



Ordering Information Ethernet Media Converters

Name	Description
Industrial Gigabit PoE/PoE+ Injectors/Splitters	
LNP-101AG-T	Industrial PoE Splitter for 10/100/1000T, EOT (-40C to 80C)
LNS-0200G-T (Preliminary)	Industrial Gigabit PoE+ Splitter w/1*10/100/1000Tx + 1*10/100/1000TX (Data & PoE+ Power Input), EOT: -40C to 75C
LNP-201AG-T	Industrial IEEE 802.3at Gigabit PoE/PoE+ Injector, EOT (-40C to 75C)
LNJ-0200G-T (Preliminary)	Industrial Gigabit PoE+ Injector w/1*10/100/1000Tx + 1*10/100/1000Tx (Data & PSE 30W Max), EOT: -40C to 75C
IMC Series - Industrial 10/100/1000 Ethernet Media Converters	
IMC-C1000-SFP	Compact Industrial Gigabit Media Converter with 1*10/100/1000Tx to 1*100/1000Fx SFP Socket
IMC-C1000-SFP-T	Compact Industrial Gigabit Media Converter with 1*10/100/1000Tx to 1*100/1000Fx SFP Socket; EOT: -40C to 75C
IMP Series - Industrial 10/100/1000 PoE Ethernet Media Converters	
IMP-C1000-SFP (Preliminary)	Compact Industrial Gigabit PoE+ Media Converter with 1*10/100/1000Tx (PSE: 30W) to 1*100/1000Fx SFP Socket
IMP-C1000-SFP-T (Preliminary)	Compact Industrial Gigabit PoE+ Media Converter with 1*10/100/1000Tx (PSE: 30W) to 1*100/1000Fx SFP Socket; EOT: -40C to 75C
FCU Series - 10/100Tx Ethernet Media Converters	
FCU-1005C	10/100Tx to 100Fx Media Converter, Multi-Mode 2km, SC Connector
FCU-1005T	10/100Tx to 100Fx Media Converter, Multi-Mode 2km, ST Connector
FCU-1005C-S3	10/100Tx to 100Fx Media Converter, Single-Mode 30km, SC Connector
FCU-1005T-S3	10/100Tx to 100Fx Media Converter, Single-Mode 30km, ST Connector
FCU-1005C-S5	10/100Tx to 100Fx Media Converter, Single-Mode 50km, SC Connector
FCU-1005C-S6	10/100Tx to 100Fx Media Converter, Single-Mode 60km, SC Connector
FCU-1005C-S8	10/100Tx to 100Fx Media Converter, Single-Mode 80km, SC Connector
FCU-1005C-S120	10/100Tx to 100Fx Media Converter, Single-Mode 120km, SC Connector
FCU-100WA-M	10/100Tx to 10/100Fx Single Fiber (WDM), Multi-Mode 2km, Tx1310nm - RX1550nm
FCU-100WB-M	10/100Tx to 10/100Fx Single Fiber (WDM), Multi-Mode 2km, Tx1550nm - RX1310nm
FCU-100WA-S2	10/100Tx to 10/100Fx Single Fiber (WDM), Single-Mode 20km, Tx1310nm - RX1550nm
FCU-100WB-S2	10/100Tx to 10/100Fx Single Fiber (WDM), Single-Mode 20km, Tx1550nm - RX1310nm
FCU-100WA-S4	10/100Tx to 10/100Fx Single Fiber (WDM), Single-Mode 40km, Tx1310nm - RX1550nm
FCU-100WB-S4	10/100Tx to 10/100Fx Single Fiber (WDM), Single-Mode 40km, Tx1550nm - RX1310nm
FCU-100WA-S6	10/100Tx to 10/100Fx Single Fiber (WDM), Single-Mode 60km, Tx1310nm - RX1550nm
FCU-100WB-S6	10/100Tx to 10/100Fx Single Fiber (WDM), Single-Mode 60km, Tx1550nm - RX1310nm
FCU-100WA-S8	10/100Tx to 10/100Fx Single Fiber (WDM), Single-Mode 80km, Tx1310nm - RX1550nm
FCU-100WB-S8	10/100Tx to 10/100Fx 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 10/100Fx PoE Media Converter, Single Fiber (WDM-A), Single-Mode 20km, Tx1310nm - RX1550nm
FCU-1802P-WB-S2	10/100Tx to 10/100Fx PoE Media Converter, Single Fiber (WDM-B), Single-Mode 20km, Tx1310nm - RX1550nm
FCU-1802WA-S2	10/100Tx to 10/100Fx Single Fiber (WDM-A), Single-Mode 20km, Tx1310nm - RX1550nm
FCU-1802WB-S2	10/100Tx to 10/100Fx Single Fiber (WDM-B), Single-Mode 20km, Tx1550nm - RX1310nm
FCU Series - Gigabit 10/100/1000 Ethernet Media Converters	
FCU-2805SFP	10/100/1000Tx to 1000Sx/Lx Media Converter w/SFP Slot
FCU-2805P-SFP	10/100/1000Tx to SFP (Mini-GBIC) Media Converter w/ IEEE 802.3at PoE+ Injector Port
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

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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-3102SFP-SFP-DR	100/1000BASE-X SFP to 100/1000BASE-X SFP Dual Rates Media Converter
FCU-5002-SFP+	10GBase-R SFP+ to 10GBase-R SFP+ Media Converter

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

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

Product Selection Guide
INDUSTRIAL WIRELESS



Industrial Wireless AP/Bridge/Client



Model Names	APN-210N Series	APN-310N Series	APN-320N Series
Specifications			
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 RJ45 Ports	2 * 10/100Tx RJ45 Ports	Total of 4 RJ45 Ports: (2 * 10/100Tx per Radio>
Antenna	1 External SMA Antennas (Supports MIMO)	2 External SMA Antennas (Supports MIMO)	4 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	WEP, WPA / WPA2, PSK, TKIP, 802.11i, 802.1x and RADIUS Supported	WEP, WPA / WPA2, PSK, TKIP, 802.11i, 802.1x and RADIUS Supported	WEP, WPA / WPA2, PSK, TKIP, 802.11i, 802.1x and RADIUS Supported
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 to 2.462GHz (US & Canada) 2.412GHz to 2.472GHz (Europe) 2.412GHz to 2.484GHz (Japan)	2.412GHz to 2.462GHz (US & Canada) 2.412GHz to 2.472GHz (Europe) 2.412GHz to 2.484GHz (Japan)	2.412GHz to 2.462GHz (US & Canada) 2.412GHz to 2.472GHz (Europe) 2.412GHz to 2.484GHz (Japan)
IEEE 802.11a/n		5.150 to 5.350 GHz, 5.470 to 5.725GHz, 5.725 to 5.850 GHz (US & Canada) 5.150 to 5.350 GHz, 5.470 to 5.725GHz, 5.725 to 5.875 GHz (Europe) 5.150 to 5.250 GHz, 5.250 to 5.350GHz, 5.470 to 5.725GHz(Japan)	5.150 to 5.350 GHz, 5.470 to 5.725GHz, 5.725 to 5.850 GHz (US & Canada) 5.150 to 5.350 GHz, 5.470 to 5.725GHz, 5.725 to 5.875 GHz (Europe) 5.150 to 5.250 GHz, 5.250 to 5.350GHz, 5.470 to 5.725GHz(Japan)
Power Requirements			
Protection	Ground Screw Designed	Ground Screw Designed	Ground Screw Designed
Power Input	12 to 48VDC in 6-Pin Terminal Block	12 to 48VDC in 6-Pin Terminal Block	12 to 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: -10C to 60C EOT: -35C to 70C	STD: -10C to 60C EOT: -35C to 70C	STD: -10C to 60C EOT: -35 to 70C
Storage Temperature	-40C to 90C	-40C to 90C	-40C 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-3200
Specifications		
Type	IEEE 802.11b/g/n 2.4GHz w/ Single Radio	
Interface		
Number of Units	1	
Number of Radios	1	
Ethernet Port	RJ45 Ports: 1 * 10/100Tx	
Antenna	2 Omni Directional Antennas (Supports MIMO)	
Technology		
Protocol	IP, DHCP, HTTPS, SNMP v1/v2, Trap, STP	
IEEE Standard	802.11b/g/n, 802.3, 802.3u, 802.3x	
Transmit Power	Controllable Power Output (1dB Per Step)	
WLAN Operation Mode	AP / Client / Bridge / Repeater	
Encryption Security	WEP, WPA / WPA2, PSK, TKIP, 802.11i, 802.1x and RADIUS Supported	
Wireless Security	ESSID Broadcast Disable, MAC Address Filter	
Frequency Range		
IEEE 802.11b/g	2.412GHz to 2.462GHz (US & Canada) 2.412GHz to 2.472GHz (Europe) 2.412GHz to 2.484GHz (Japan)	
IEEE 802.11a/n		
Power Requirements		
Protection	Ground Plate Through Mounting	
Power Input	48v PoE	
Power Consumption	10W	
Radio Power	800mW	
Mechanical Characteristics		
Housing	Metal, IP67 Protection	
Dimensions	83 x 267 x 241 mm	
Weight	5.15 lbs.	
Mounting	Pole or Wall Mounting	
Environmental Limits		
Operating Temperature	STD: -20C to 70C	
Storage Temperature	-30C to 80C	
Ambient Relative Humidity	5 to 95%, (Non-Condensing)	
Regulatory Approvals		
Certifications	FCC, RoHS	
Reliability		
Warranty	5 Years	

Product Showcase

Application Notes

Industrial Ethernet

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SFP Modules

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Model Names		APR-3100N Series
Specifications		
Type	Wireless AP, VPN/Router	
Interface		
Ethernet Port	Total of 2 RJ45 Ports: 2 * 10/100Tx	
Antenna	2 External SMA Antennas (Supports MIMO; 1tx 1rx)	
Technology		
Protocol	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	
Transmit Power	Controllable Power Output (1dB Per Step)	
Operation Mode	AP / VPN / Router	
Encryption Security	WEP, WPA / WPA2, PSK, TKIP, 802.11i, 802.1x and RADIUS Supported	
Wireless Security	ESSID Broadcast Disable, 3* Virtual Access Points, MAC Address Filter	
Frequency Range		
IEEE 802.11b/g	2.412GHz to 2.462GHz (US & Canada) 2.412GHz to 2.472GHz (Europe) 2.412GHz to 2.484GHz (Japan)	
IEEE 802.11a/n	5.150 to 5.350 GHz, 5.470 to 5.725GHz, 5.725 to 5.850 GHz (US & Canada) 5.150 to 5.350 GHz, 5.470 to 5.725GHz, 5.725 to 5.875 GHz (Europe) 5.150 to 5.250 GHz, 5.250 to 5.350GHz, 5.470 to 5.725GHz(Japan)	
Power Requirements		
Protection	Ground Screw Designed	
Power Input	12 to 48VDC in 6-Pin Terminal Block	
Power Consumption	10W	
Radio Power	100mW *2	
Mechanical Characteristics		
Housing	Metal, IP30 Protection	
Dimensions	46 x 155 x 115 mm	
Weight	1.7 lbs.	
Mounting	DIN-Rail & Wall Mounting	
Environmental Limits		
Operating Temperature	STD: -10C to 60C EOT: -35C to 70C	
Storage Temperature	-40C to 90C	
Ambient Relative Humidity	5 to 95%, (Non-Condensing)	
Regulatory Approvals		
Certifications	FCC, RoHS	
Reliability		
Warranty	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: -35C 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: -30C 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: -35C to 70C
APN-5100AC (Preliminary)	Industrial 802.11a/b/g/n/ac WiFi Access Point/Client/Bridge/Repeater
APN-5100AC-T (Preliminary)	Industrial 802.11a/b/g/n/ac WiFi Access Point/Client/Bridge/Repeater, EOT -30C 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
APR Series - Industrial Wireless Router	
APR-3100N	Industrial 802.11b/g AP/VPN/Router
APR-3100N-T	Industrial 802.11b/g AP/VPN/Router, EOT -35C to 75C

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 120VAC 24VDC 400mA
PA-48-48-US	PoE Injector, Input 100-240VAC/2A, Output 48VDC/1A

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Industrial Serial-to-Ethernet Device Servers



Model Names	STE-501C	STE-502C	STE-6104C-T
Specifications			
Type	1-Port	2-Port	4-Port
Ethernet Interface			
Ports	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
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
Serial Interface			
Ports	1*RS232/422/485 (DB9 Male)	2*RS232/422/485 (DB9 Male)	4*RS232/422/485 (DB9 Male)
Baud Rate	1200bps to 230.4 Kbps	1200bps to 230.4 Kbps	300bps to 921.6Kbps
Serial Console Port	-	-	1*RJ45 Port
Isolation Protection	-	-	-
Software			
Operation Mode	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
DUAL Ethernet	-	-	Network Redundant: DUAL LAN Data Redundant
OS Support	MS Windows, Linux	MS Windows, Linux	MS Windows, Linux
Power Characteristics			
Power Input	9-30 VDC (Terminal Block); 5V (DC Jack)	9-30 VDC (Terminal Block); 5V (DC Jack)	9 to 48VDC (Terminal Block)
Power Consumption (Max)	3W	3W	5.85W
Hardware Characteristics			
LCM Display	-	-	-
LCM Buttons	-	-	-
Housing	Metal, IP40 Protection	Metal, IP40 Protection	Metal, IP50 Protection
Dimensions	65 x 80 x 28 mm	53.4x145.7x119.9 mm	53.4 x 145.7 x 119.9 mm
Weight	0.4 lbs.	0.5 lbs.	2.05 lbs.
Installation	DIN-Rail or Wall Mounting	DIN-Rail or Wall Mounting	DIN-Rail or Wall Mounting
Environmental Limits			
Operating Temperature	0C to 60C	0C to 60C	-40C to 80C
Storage Temperature	-20C to 80C	-20C to 80C	-40C to 85C
Humidity	20 to 90%, (Non-Condensing)	20 to 90%, (Non-Condensing)	5 to 90%, (Non-Condensing)
Regulatory Approvals			
Freefall/ Shock/Vibration	IEC 60068-2-32/27/6	IEC 60068-2-32/27/6	IEC 60068-2-32/27/6
Certifications	CE, FCC	CE, FCC	CE, FCC
RoHS	Yes	Yes	Yes
Warranty	5 Years	5 Years	5 Years

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Industrial Serial-to-Ethernet Device Servers



Model Names	STE-708 Series	STE-716 Series
Specifications		
Type	8-Port	16-Port
Ethernet Interface		
Ports	2*10/100Tx, Auto MDI/MDIX	2*10/100Tx, Auto MDI/MDIX
Compliance	IEEE 802.3, 802.3u	IEEE 802.3, 802.3u
Network Protocol	IPv4,ICMP,TCP,UDP,DHCP Client,SNMP,HTTP,Telnet, RFC2217,NTP,DNS,SMTP,Syslog	IPv4,ICMP,TCP,UDP,DHCP Client,SNMP,HTTP,Telnet, RFC2217,NTP,DNS,SMTP,Syslog
Serial Interface		
Ports	8*RS232/422/485 (RJ45)	16*RS232/422/485 (RJ45)
Baud Rate	50bps to 921.6Kbps	50bps to 921.6Kbps
Serial Console Port	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
Configuration Options	Web Console, Telnet, Windows Utility Software	Web Console, Telnet, Windows Utility Software
DUAL Ethernet	Daisy Chain Ethernet; Network Redundancy; Data Redundancy Network	Daisy Chain Ethernet; Network Redundancy; Data Redundancy Network
OS Support	MS Windows, Linux	MS Windows, Linux
Power Characteristics		
Power Input	100 to 240VAC	100 to 240VAC
Power Consumption (Max)	0.21A @100 VAC	0.21A @100 VAC
Hardware Characteristics		
LCM Display	Display Device Information	Display Device Information
LCM Buttons	Front End Configuration	Front End Configuration
Housing	Metal, IP30 Protection	Metal, IP30 Protection
Dimensions	436 x 43.5 x 200 mm	436 x 43.5 x 200 mm
Weight	6.0 lbs.	6.5 lbs.
Installation	1U 19" Rackmount	1U 19" Rackmount
Environmental Limits		
Operating Temperature	-20C to 70C	-20C to 70C
Storage Temperature	-40C to 85C	-40C to 85C
Humidity	5 to 90%, (Non-Condensing)	5 to 90%, (Non-Condensing)
Regulatory Approvals		
Freefall/ Shock/Vibration	-	-
Certifications	CE, FCC	CE, FCC
RoHS	Yes	Yes
Warranty	5 Years	5 Years



Industrial Serial-to-Fieldbus Gateway



Model Names		STM-501C
Specifications		
Type	Modbus ASCII/RTU/485 to ModbusTCP	
Ethernet Interface		
Ports	1*10/100Mbps RJ45, Auto MDI/MDIX	
Compliance	IEEE 802.3 10BASE-T / IEEE 802.3u 100BASE-TX	
Network Protocol	TCP, IP, ARP, DHCP, Telnet, HTTP, UDP, ICMP	
Serial Interface		
Ports	1*RS232/422/485 DB9 Male	
Baud Rate	110 bps to 230.4 Kbps	
Serial Console Port	-	
Isolation Protection	-	
Software		
Operation Mode	Virtual COM, TCP/UDP	
Modbus Parameters	Up to 1 TCP Master, 8 TCP Slaves	
Configuration Options	Serial Console, Telnet, Web and Windows-Based Utility	
Watch Dog Timer	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)	
Power Consumption (Max)	3.5W	
Hardware Characteristics		
Housing	Metal, IP30 Protection	
Dimensions	85 x 115 x 23 mm	
Weight	0.4 lbs.	
Installation	DIN-Rail or Wall Mounting	
Environmental Limits		
Operating Temperature	0C to 50C	
Storage Temperature	-20C to 60C	
Ambient Relative Humidity	0 to 90%, (Non-Condensing)	
Regulatory Approvals		
Freefall/ Shock/Vibration		
Certifications	CE, FCC	
RoHS	Yes	
Warranty	5 Years	

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



Industrial Serial-to-Fiber Converters



Model Names	STF-401C Series	STF-500C Series
Specifications		
Type	Industrial Level	Advanced Level
Optical Fiber Interface		
Fiber Connector	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
Fiber Port	1*100Fx	STF-501C: 1*100Fx / : 2*100Fx
Transmission Distance	Multi-Mode: 2km / Single-Mode: 80km	Multi-Mode: 2km / Single-Mode: 80km
Wavelength	1310nm	Multi-Mode in 1310nm / Single-Mode in 1310nm/1550nm
Tx Power	Multi-Mode: -14 to -23.5dBm@50/125um / -14 to -20dBm@62.5/125um Single-Mode: -8 to -1 dBm	Multi-Mode: -14 to -20 dBm / Single-Mode: -5 to -15 dBm
Rx Sensitivity	Multi-Mode <-31 dBm: Single-Mode <-32 dBm	Multi-Mode: - 31 dBm / Single-Mode: - 35 dBm
Serial Interface		
Serial Port Connector	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	300bps to 921 kbps	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	Selected by 10 Position Rotary Switches
Power Requirements		
Power Input	9 to 48VDC	12, 24, 48 VDC (9.6 to 58VDC absolute)
Power Consumption	2.52W - @0.28A max, 9 VDC	5W
Power Connector	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, IP50 Protection	Metal, IP30 Protection
Dimensions	34.4 x 91.2 x 120mm	106 x 39 x 142mm
Weight	1.5 lbs.	1.6 lbs.
Mounting	DIN-Rail Mounting, Wall Mounting (optional)	DIN-Rail Mounting, and Wall Mounting Kits Included
Environmental Limits		
Operating Temperature	-40C to 70C	STD: 0C to 60C EOT: -40C to 75C
Storage Temperature	-40C to 85C	-40C to 85C
Ambient Relative Humidity	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
MTBF	216,388 Hours	797,101 Hours
Certifications	FCC, CE	FCC, CE, UL
Warranty	5 Years	5 Years

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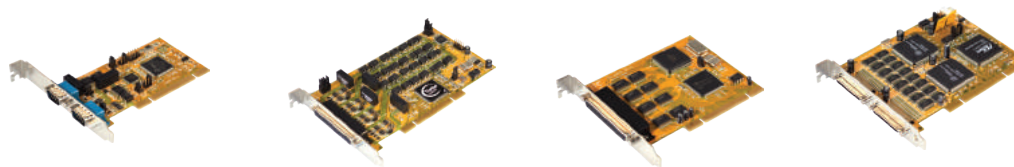
Serial to Serial Converter



Model Names	STS-1915 Series	STS-1920SI	STS-1921SI
Specifications			
Type	Serial to Serial	Serial Repeater	Serial Isolator
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
Ports	1 x RS422/485	1 x RS232	1 x RS232
LED Indicators	-	-	-
Parameters			
Baud Rate	Auto Baud Rate Detection	Up to 921.6Kbps	Up to 921.6Kbps
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
Data Bits	-	-	-
Parity	-	-	-
Stop Bits	-	-	-
Mode	-	-	-
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)
Power Consumption	-	-	-
Protection			
Surge Protection	500W	-	15KV ESD Protection
Isolation Protection	250Vrms	-	2,500Vrms
Environmental Limits			
Operating Temperature	0C to 57C	0C to 60C	0C to 60C
Storage Temperature	-20C to 85C	-20C to 85C	-20C to 85C
Humidity	5 to 95%, (Non-Condensing)	5 to 95%, (Non-Condensing)	5 to 95%, (Non-Condensing)
Warranty	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	15KV ESD Protection
Isolation Protection	2,500Vrms (SI Model Only)	2,500Vrms (SI Model Only)	-	-
Environmental Limits				
Operating Temperature	0C to 55C	0C to 55C	0C to 55C	0C to 55C
Storage Temperature	-40C to 75C	-40C to 75C	-40C to 75C	-40C 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

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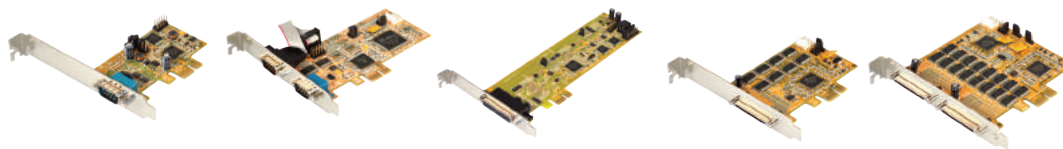
Industrial Wireless

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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	0C to 55C	0C to 55C	0C to 55C	0C to 55C	0C to 55C
Storage Temperature	-40C to 75C	-40C to 75C	-40C to 75C	-40C to 75C	-40C 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 to 921.6Kbps	300bps to 921.6Kbps	300bps to 921.6Kbps	300bps to 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	0C to 57C	0C to 60C	0C to 60C	0C to 55C
Storage Temperature	-20C to 85C	-20C to 85C	-20C to 85C	-20C 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

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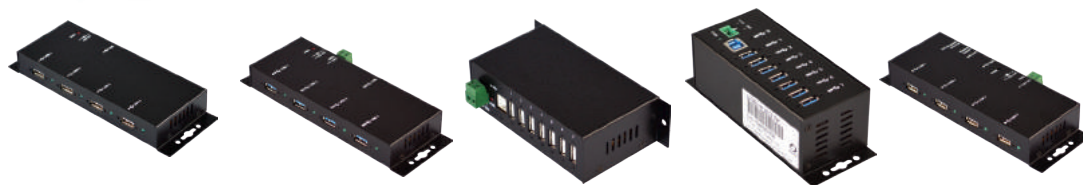
Industrial USB to Serial Converter



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 to 921.6Kbps	300bps to 921.6Kbps	300bps to 921.6Kbps	300bps to 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	0C to 55C	0C to 55C	0C to 55C	0C to 55C
Storage Temperature	-20C to 85C	-20C to 85C	-20C to 85C	-20C 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-V2	USB-HUB3-7K-V2	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*USB Port (Type-B) Down: 4*USB Ports (Type-A)	Up: 1*USB Port (Type-B) Down: 4*USB Ports (Type-A)	Up: 1*USB Port (Type-B) Down: 7*USB Ports (Type-A)	Up: 1*USB Port (Type-B) Down: 7*USB Ports (Type-A)	Up: 1*USB Port (Type-B) Down: 4*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, and 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	7to24VDC 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	-10C to 70C	-10C to 70C	0C to 55C	0C to 55C	0C to 55C
Storage Temperature	-20C to 85C	-20C to 85C	-20C to 85C	-20C to 85C	-20C 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

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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-6104C-T	4-Port Industrial Serial RS232/422/485 to Ethernet Device Server, w/DUAL LAN; EOT: -40C to 80C
STE-708A	8-Port 1U 19" Rackmount Industrial Serial RS232 to Ethernet Device Server, w/DUAL LAN, AC Input
STE-708A-EU	8-Port 1U 19" Rackmount Industrial Serial RS232 to Ethernet Device Server, w/DUAL LAN, AC Input, EU Plug
STE-708A-DC	8-Port 1U 19" Rackmount Industrial Serial RS232 to Ethernet Device Server, w/DUAL LAN, DC Input
STE-708Bi	8-Port 1U 19" Rackmount Industrial Serial R422/485 to Ethernet Device Server w/Optical Isolation, DUAL LAN, AC Input
STE-708Bi-EU	8-Port 1U 19" Rackmount Industrial Serial R422/485 to Ethernet Device Server w/Optical Isolation, DUAL LAN, AC Input, EU Plug
STE-708Bi-DC	8-Port 1U 19" Rackmount Industrial Serial R422/485 to Ethernet Device Server w/Optical Isolation, DUAL LAN, DC Input
STE-708C	8-Port 1U 19" Rackmount Industrial Serial 3-in-1 R232/422/485 to Ethernet Device Server w/Optical Isolation, DUAL LAN, AC Input
STE-708C-EU	8-Port 1U 19" Rackmount Industrial Serial 3-in-1 R232/422/485 to Ethernet Device Server w/Optical Isolation, DUAL LAN, AC Input, EU Plug
STE-708C-DC	8-Port 1U 19" Rackmount Industrial Serial 3-in-1 R232/422/485 to Ethernet Device Server w/Optical Isolation, DUAL LAN, DC Input
STE-716A	16-Port 1U 19" Rackmount Industrial Serial RS232 to Ethernet Device Server, w/DUAL LAN, AC Input
STE-716A-EU	16-Port 1U 19" Rackmount Industrial Serial RS232 to Ethernet Device Server, w/DUAL LAN, AC Input, EU Plug
STE-716A-DC	16-Port 1U 19" Rackmount Industrial Serial RS232 to Ethernet Device Server, w/DUAL LAN, DC Input
STE-716Bi	16-Port 1U 19" Rackmount Industrial Serial R422/485 to Ethernet Device Server w/Optical Isolation, DUAL LAN, AC Input
STE-716Bi-EU	16-Port 1U 19" Rackmount Industrial Serial R422/485 to Ethernet Device Server w/Optical Isolation, DUAL LAN, AC Input, EU Plug
STE-716Bi-DC	16-Port 1U 19" Rackmount Industrial Serial R422/485 to Ethernet Device Server w/Optical Isolation, DUAL LAN, DC Input
STE-716C	16-Port 1U 19" Rackmount Industrial Serial 3-in-1 R232/422/485 to Ethernet Device Server w/Optical Isolation, DUAL LAN, AC Input
STE-716C-EU	16-Port 1U 19" Rackmount Industrial Serial 3-in-1 R232/422/485 to Ethernet Device Server w/Optical Isolation, DUAL LAN, AC Input, EU Plug
STE-716C-DC	16-Port 1U 19" Rackmount Industrial Serial 3-in-1 R232/422/485 to Ethernet Device Server w/Optical Isolation, DUAL LAN, DC Input
Industrial Serial-to-Fieldbus Gateways	
STM-501C	1-Port RS232/422/485 Modbus TCP to Serial RTU/ASCII Gateway
Industrial Serial-to-Wireless Device Servers	
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-401C-CM02-T	Industrial Compact RS232/422/485 to Fiber Converter, Multi-Mode 2km, SC Connector, -40C to 70C
STF-401C-TM02-T	Industrial Compact RS232/422/485 to Fiber Converter, Multi-Mode 2km, ST Connector, -40C to 70C
STF-401C-CS30-T	Industrial Compact RS232/422/485 to Fiber Converter, Single-Mode 30km, SC Connector, -40C to 70C
STF-401C-TS30-T	Industrial Compact RS232/422/485 to Fiber Converter, Single-Mode 30km, ST Connector, -40C to 70C
STF-501C-CM02	Industrial RS232/422/485 to Fiber Converter, 2.5KV Isolation, Multi-Mode 2km, SC Connector, 0C to 60C
STF-501C-CM02-T	Industrial RS232/422/485 to Fiber Converter, 2.5KV Isolation, Multi-Mode 2km, SC Connector, EOT: -40C to 75C
STF-501C-TM02	Industrial RS232/422/485 to Fiber Converter, 2.5KV Isolation, Multi-Mode 2km, ST Connector, 0C to 60C
STF-501C-TM02-T	Industrial RS232/422/485 to Fiber Converter, 2.5KV Isolation, Multi-Mode 2km, ST Connector, EOT: -40C to 75C
STF-501C-CS30	Industrial RS232/422/485 to Fiber Converter, 2.5KV Isolation, Single-Mode 30km, SC Connector, 0C to 60C
STF-501C-CS30-T	Industrial RS232/422/485 to Fiber Converter, 2.5KV Isolation, Single-Mode 30km, SC Connector, EOT: -40C 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: -40C to 75C
STF-502C-CM02	Industrial RS232/422/485 to Dual Fiber Ports Converter, 2.5KV Isolation, Multi-Mode 2km, SC Connector, 0C to 60C
STF-502C-CM02-T	Industrial RS232/422/485 to Dual Fiber Ports Converter, 2.5KV Isolation, Multi-Mode 2km, SC Connector, EOT: -40C to 75C
STF-502C-TM02	Industrial RS232/422/485 to Dual Fiber Ports Converter, 2.5KV Isolation, Multi-Mode 2km, ST Connector, 0C to 60C
STF-502C-TM02-T	Industrial RS232/422/485 to Dual Fiber Ports Converter, 2.5KV Isolation, Multi-Mode 2km, ST Connector, EOT: -40C to 75C
STF-502C-CS30	Industrial RS232/422/485 to Dual Fiber Ports Converter, 2.5KV Isolation, Single-Mode 30km, SC Connector, 0C to 60C
STF-502C-CS30-T	Industrial RS232/422/485 to Dual Fiber Ports Converter, 2.5KV Isolation, Single-Mode 30km, SC Connector, EOT: -40C to 75C
STF-502C-TS30	Industrial RS232/422/485 to Dual Fiber Ports Converter, 2.5KV Isolation, Single-Mode 30km, ST Connector, 0C to 60C
STF-502C-TS30-T	Industrial RS232/422/485 to Dual Fiber Ports Converter, 2.5KV Isolation, Single-Mode 30km, ST Connector, EOT: -40C 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



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 and 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) with Surge and Isolation, 2.5M
UTS-401BK-SI	Industrial USB to 1-Port RS422/485 Converter (Locking Feature), w/ Surge and 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 and w/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 and 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 and w/ Surge and Isolation
UTS-408A-SI	Industrial 8-Port RS232 to USB 2.0 High Speed Converter w/ Surge and 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 PA
USB-HUB7K-V2	Industrial 7-Port USB 2.0 Hub, Metal Case, w/ Locking Feature
USB-HUB3-7K-V2	Industrial 7-Port USB 3.0 Hub, Metal Case, w/ Locking Feature
UTE-404K	4-Port USB 2.0 to Gigabit Ethernet Adapter

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Product Selection Guide
SFP/SFP+/XFP MODULES



SFP / SFP+ Modules



Model Names	SFP-100 Series	SFP-100WA/B Series	SFP-M / SFP-S Series
Type	100Mbps SFP	100Mbps SFP (WDM)	1G SFP
Parameters			
Compatible Version	Cisco, HP	Cisco, HP	Cisco, HP
Data Rate	155Mbps	125 to 155Mbps, NRZ	1.25Gbps
Interface	Duplex LC	LC (Single-Mode WDM)	Duplex LC
Cable Length	-	-	-
Transmission Distance	Options: 2 to 40km	20km	Options: 550M to 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 to 23 dBm
Operating Voltage	3.3V TTL AC/AC	3.3V TTL AC/AC	3.3V TTL AC/AC
Output Power	-19 to -14 dBm	-14 to 8 dBm	-9.5 to +1 dBm
Operating Temperature	STD: 0C to 70C EOT: -40C to 85C	STD: 0C to 70C EOT: -40C to 85C	STD: 0C to 70C EOT: -40C to 85C
Storage Temperature	-40C to 85C	-40C to 85C	-40C to 85C
RoHS Compliant	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
Warranty	5 Years	5 Years	5 Years



Model Names	SFP-WA/B Series	SFP-10G Series	SFP-10G-WA/B Series
Type	1G SFP (WDM)	10G SFP+	10G SFP+ (WDM)
Parameters			
Compatible Version	Cisco, HP	Cisco, HP, DELL	Cisco, HP, Dell
Data Rate	1.25Gbps	10.3125Gbps	10.3125Gbps
Interface	LC (Single-Mode WDM)	Duplex LC	LC (Single-Mode WDM)
Cable Length	-	-	-
Transmission Distance	Options: 550M to 80km	Options: 300M to 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
Sensitivity	≤-21 dBm	≤-11.1 dBm	≤-14.4 dBm
Operating Voltage	3.3V TTL AC/AC	3.3V TTL AC/AC	3.3V TTL AC/AC
Output Power	-9.5 to +1 dBm	-	-9.5 to +1 dBm
Operating Temperature	STD: 0C to 70C EOT: -40C to 85	STD: 0C to 70C	0C to 70C
Storage Temperature	-40C to 85C	-40C to 85C	-40C to 85C
RoHS Compliant	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
Warranty	5 Years	5 Years	5 Years

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Ordering Information - SFP / SFP+ 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, 0C to 70C
SFP-100M-T	155Mbps Fast Ethernet SFP Transceiver, Multi-Mode 2km / LC / 1310nm, -40C to 85C
SFP-100S20	155Mbps Fast Ethernet SFP Transceiver, Single-Mode 20km / LC / 1310nm, 0C to 70C
SFP-100S20-T	155Mbps Fast Ethernet SFP Transceiver, Single-Mode 20km / LC / 1310nm, -40C to 85C
SFP-100S40	155Mbps Fast Ethernet SFP Transceiver, Single-Mode 40km / LC / 1310nm, 0C to 70C
SFP-100S40-T	155Mbps Fast Ethernet SFP Transceiver, Single-Mode 40km / LC / 1310nm, -40C to 85C
100Mbps SFP Module WDM	
SFP-100WA20	155Mbps SFP Transceiver WDM-A, Single-Mode 20km / LC / Tx:1310nm Rx:1550nm, 0C to 70C
SFP-100WB20	155Mbps SFP Transceiver WDM-B, Single-Mode 20km / LC / Tx:1550nm Rx:1310nm, 0C to 70C
SFP-100WA20-T	155Mbps SFP Transceiver WDM-A, Single-Mode 20km / LC / Tx:1310nm Rx:1550nm, -40C to 85C
SFP-100WB20-T	155Mbps SFP Transceiver WDM-B, Single-Mode 20km / LC / Tx:1550nm Rx:1310nm, -40C to 85C
1G SFP Module (Copper)	
SFP-C	10/100/1000BASE-T Copper Ethernet SFP Transceiver, 0C to 70C
SFP-C1	1000BASE-T Copper Ethernet SFP Transceiver, 0C to 70C
1G SFP Module	
SFP-M	1.25Gbps Ethernet SFP Transceiver, Multi-Mode 550M / LC / 850nm, 0C to 70C
SFP-M-T	1.25Gbps Ethernet SFP Transceiver, Multi-Mode 550M / LC / 850nm; EOT: -40C to 85C
SFP-M2	1.25Gbps Ethernet SFP Transceiver, Multi-Mode 2km / LC / 1310nm, 0C to 70C
SFP-M2-T	1.25Gbps Ethernet SFP Transceiver, Multi-Mode 2km / LC / 1310nm; EOT: -40C to 85C
SFP-S10	1.25Gbps Ethernet SFP Transceiver, Single-Mode 10km / LC / 1310nm, 0C to 70C
SFP-S10-T	1.25Gbps Ethernet SFP Transceiver, Single-Mode 10km / LC / 1310nm; EOT: -40C to 85C
SFP-S20	1.25Gbps Ethernet SFP Transceiver, Single-Mode 20km / LC / 1310nm, 0C to 70C
SFP-S20-T	1.25Gbps Ethernet SFP Transceiver, Single-Mode 20km / LC / 1310nm; EOT: -40C to 85C
SFP-S30	1.25Gbps Ethernet SFP Transceiver, Single-Mode 30km / LC / 1310nm, 0C to 70C
SFP-S40	1.25Gbps Ethernet SFP Transceiver, Single-Mode 40km / LC / 1310nm, 0C to 70C
SFP-S60	1.25Gbps Ethernet SFP Transceiver, Single-Mode 60km / LC / 1550nm, 0C to 70C
SFP-S60-T	1.25Gbps Ethernet SFP Transceiver, Single-Mode 60km / LC / 1550nm; EOT: -40C to 85C
SFP-S80	1.25Gbps Ethernet SFP Transceiver, Single-Mode 80km / LC / 1550nm, 0C to 70C
SFP-S80-T	1.25Gbps Ethernet SFP Transceiver, Single-Mode 80km / LC / 1550nm; EOT: -40C to 85C
SFP-S120	1.25Gbps Ethernet SFP Transceiver, Single-Mode 120km / LC / 1550nm, 0C to 70C
SFP-S120-T	1.25Gbps Ethernet SFP Transceiver, Single-Mode 120km / LC / 1550nm; EOT: -40C to 85C
1G SFP Modules (WDM)	
SFP-WA-M	1.25G Gigabit SFP Transceiver WDM-A, MM/LC/550M/Tx:1310nm Rx:1550nm, 0C to 70C
SFP-WB-M	1.25G Gigabit SFP Transceiver WDM-B, MM/LC/550M/Tx:1550nm Rx:1310nm, 0C to 70C
SFP-WA10	1.25G Gigabit SFP Transceiver WDM-A, SM/LC/10km/11.0dB/Tx:1310nm Rx:1550nm, 0C to 70C
SFP-WB10	1.25G Gigabit SFP Transceiver WDM-B, SM/LC/10km/11.0dB/Tx:1550nm Rx:1310nm, 0C to 70C
SFP-WA10-T	1.25G Gigabit SFP Transceiver WDM-A, SM/LC/10km/11.0dB/Tx:1310nm Rx:1550nm; EOT: -40C to 85C
SFP-WB10-T	1.25G Gigabit SFP Transceiver WDM-B, SM/LC/10km/11.0dB/Tx:1550nm Rx:1310nm; EOT: -40C 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, 0C to 70C
SFP-WA40	1.25G Gigabit SFP Transceiver WDM-A, SM/LC/40km/21.0dB/Tx:1310nm Rx:1550nm, 0C to 70C
SFP-WB40	1.25G Gigabit SFP Transceiver WDM-B, SM/LC/40km/21.0dB/Tx:1550nm Rx:1310nm, 0C to 70C
SFP-WA60	1.25G Gigabit SFP Transceiver WDM-A, SM/LC/60km/23.0dB/Tx:1310nm Rx:1550nm, 0C to 70C
SFP-WB60	1.25G Gigabit SFP Transceiver WDM-B, SM/LC/60km/23.0dB/Tx:1550nm Rx:1310nm, 0C to 70C
SFP-WA80	1.25G Gigabit SFP Transceiver WDM-A, SM/LC/80km/24.0dB/Tx:1490nm Rx:1550nm, 0C to 70C
SFP-WB80	1.25G Gigabit SFP Transceiver WDM-B, SM/LC/80km/24.0dB/Tx:1550nm Rx:1490nm, 0C to 70C
10G SFP+ Modules	
SFP-10G-M	10G SFP+ SR Transceiver, Multi-Mode 300m / LC / 850nm, 0C to 70C
SFP-10G-S10	10G SFP+ LR Transceiver, Single-Mode 10km / LC / 1310nm, 0C to 70C
SFP-10G-S40	10G SFP+ ER Transceiver, Single-Mode 40km / LC / 1550nm, 0C to 70C
SFP-10G-S80	10G SFP+ ZR Transceiver, Single-Mode 80km / LC / 1550nm, 0C to 70C



SFP/SFP+/XFP Modules

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

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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 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/ TB (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-1915S
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-Ports 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 with Locking Feature, 2m, Black
CB-USBA-USBB-5M-K	USB 2.0 Cable, A to B with 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

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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

Ordering Information - Accessories - Power Supplies

Name	Description
DIN-Rail Power Supplies	
DR-15-12	15 Watt Series - Industrial Single Output DIN Rail Power Supply - 12VDC
DR-15-24	15 Watt Series - Industrial Single Output DIN Rail Power Supply - 24VDC
DR-30-12	30 Watt Series - Industrial Single Output DIN Rail Power Supply - 12VDC
DR-30-24	30 Watt Series - Industrial Single Output DIN Rail Power Supply - 24VDC
DR-45-5	45 Watt Series - Industrial Single Output DIN Rail Power Supply - 5VDC
DR-45-12	45 Watt Series - Industrial Single Output DIN Rail Power Supply - 12VDC
DR-45-24	45 Watt Series - Industrial Single Output DIN Rail Power Supply - 24VDC
DR-60-5	60 Watt Series - Industrial Single Output DIN Rail Power Supply - 5VDC
DR-60-12	60 Watt Series - Industrial Single Output DIN Rail Power Supply - 12VDC
DR-60-24	60 Watt Series - Industrial Single Output DIN Rail Power Supply - 24VDC
DR-75-12	75 Watt Series - Industrial Single Output DIN Rail Power Supply - 12VDC
DR-75-24	75 Watt Series - Industrial Single Output DIN Rail Power Supply - 24VDC
DR-75-48	75 Watt Series - Industrial Single Output DIN Rail Power Supply - 48VDC
DR-120-12	120 Watt Series - Industrial Single Output DIN Rail Power Supply - 12VDC
DR-120-24	120 Watt Series - Industrial Single Output DIN Rail Power Supply - 24VDC
DR-120-48	120 Watt Series - Industrial Single Output DIN Rail Power Supply - 48VDC
DRP-240-24	240 Watt Series - Industrial Single Output DIN Rail w/ PFC Function Power Supply - 24VDC
DRP-240-48	240 Watt Series - Industrial Single Output DIN Rail w/ PFC Function Power Supply - 48VDC
DRP-480-24	480 Watt Series - Industrial Single Output DIN Rail w/ PFC Function Power Supply - 24VDC/20A
DRP-480-48	480 Watt Series - Industrial Single Output DIN Rail w/ PFC Function Power Supply - 48VDC/10A
DRP-480S-24	480 Watt Series - Industrial Single Output DIN Rail w/ PFC Function Power Supply - 24VDC
DRP-480S-48	480 Watt Series - Industrial Single Output DIN Rail w/ PFC Function Power Supply - 48VDC
MDR-10-5	10 Watt Series - Industrial Single Output Miniature DIN Rail Power Supply - 5VDC
MDR-10-12	10 Watt Series - Industrial Single Output Miniature DIN Rail Power Supply - 12VDC
MDR-10-24	10 Watt Series - Industrial Single Output Miniature DIN Rail Power Supply - 24VDC
MDR-20-5	20 Watt Series - Industrial Single Output Miniature DIN Rail Power Supply - 5VDC
MDR-20-12	20 Watt Series - Industrial Single Output Miniature DIN Rail Power Supply - 12VDC
MDR-20-24	20 Watt Series - Industrial Single Output Miniature DIN Rail Power Supply - 24VDC
MDR-40-5	40 Watt Series - Industrial Single Output Miniature DIN Rail Power Supply - 5VDC
MDR-40-12	40 Watt Series - Industrial Single Output Miniature DIN Rail Power Supply - 12VDC
MDR-40-24	40 Watt Series - Industrial Single Output Miniature DIN Rail Power Supply - 24VDC
MDR-40-48	40 Watt Series - Industrial Single Output Miniature DIN Rail Power Supply - 48VDC
MDR-60-12	60 Watt Series - Industrial Single Output Miniature DIN Rail Power Supply - 12VDC



MDR-60-24	60 Watt Series - Industrial Single Output Miniature DIN Rail Power Supply - 24VDC
MDR-60-48	60 Watt Series - Industrial Single Output Miniature DIN Rail Power Supply - 48VDC
MDR-100-12	100 Watt Series - Industrial Single Output Miniature DIN Rail Power Supply - 12VDC
MDR-100-24	100 Watt Series - Industrial Single Output Miniature DIN Rail Power Supply - 24VDC
MDR-100-48	100 Watt Series - Industrial Single Output Miniature DIN Rail Power Supply - 48VDC
SDR-120-12	120 Watt Series - Industrial Single Output DIN Rail Power Supply w/ PFC Function - 12VDC
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
SDR-240-24	240 Watt Series - Industrial Single Output DIN Rail Power Supply w/ PFC Function - 24VDC
SDR-240-48	240 Watt Series - Industrial Single Output DIN Rail Power Supply w/ PFC Function - 48VDC
SDR-480-24	480 Watt Series - Industrial Single Output DIN Rail Power Supply w/ PFC Function - 24VDC
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-SD	SC to SC 2 Meter Single-Mode Duplex 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-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
SFP+ 10G Cables	
CB-SFP+1M	SFP+ 10GbE Direct Attach Passive Copper Cable, Male to Male, 1M (3.3ft) 30AWG
CB-SFP+2M	SFP+ 10GbE Direct Attach Passive Copper Cable, Male to Male, 2M (6.6ft) 30AWG
CB-SFP+3M	SFP+ 10GbE Direct Attach Passive Copper Cable, Male to Male, 3M (9.8ft) 30AWG
CB-SFP+4M	SFP+ 10GbE Direct Attach Passive Copper Cable, Male to Male, 4M (13.1ft) 28AWG
CB-SFP+5M	SFP+ 10GbE Direct Attach Passive Copper Cable, Male to Male, 5M (16.4ft) 24AWG

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Lined area for notes with horizontal dashed lines.

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:

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

3B. Single-Mode Cable Length Fiber Loss:

- 0.5 dB loss per km for 1300 nm sources.
- 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



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