

2019 ANTAIRA CATALOGUE

# Industrial Networking Solutions

Security\_Automation\_Transportation...



**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, water/wastewater, power/utility, oil and gas, 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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# 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

Here at Antaira, every sale is backed by our 45-Day Satisfaction Guarantee. Within 45 days of your purchase date, if for any reason you are dissatisfied with your experience or your expectations were not met, Antaira will promptly exchange or replace your product, or provide a full refund. We are available 12 hours a day 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

Transportation

Security

Water/Waste Water

Power/Utility

Oil & Gas

Medical





**PRODUCT  
SHOWCASE**

LNX-0500-M12-67-T



## 5-Port Industrial IP67 Waterproof Ethernet Switch

- 5-Port 10/100Tx Fast Ethernet
- M12 A-Coded Connector with IP67 Rated Protection
- IP67 Rugged Plastic Case Design
- RJ45 Port Support Auto MDI/MDI-X Function
- Redundant Power Input: 12~48VDC  
Pg. 29



LNP-0800G-M12-67-24



## 8-Port Industrial M12 IP67 Waterproof Gigabit PoE+ Ethernet Switch

- ▶ 8-Port 10/100/1000Tx Ethernet with IEEE 802.3at Compliant PoE+
- ▶ M12 X-Coded Connector to Ensure Tight and Robust Connection
- ▶ IP67 Rugged Waterproof Metal Case Design
- ▶ Support Digital Input/Digital Output
- ▶ Redundant Power Input: 24~55VDC  
Pg. 49



LNP-2004G-SFP Series



## 20-Port Industrial Gigabit PoE+ Unmanaged Ethernet Switch

- ▶ 16-Port 10/100/1000Tx Ethernet with IEEE 802.3at Compliant PoE+
- ▶ 4-Port 100/1000 Auto Sensing SFP Slots
- ▶ Built-in Relay for Power Redundancy Failure Warning
- ▶ RJ45 Port Support Auto MDI/MDI-X Function
- ▶ Redundant Power Input: 48~55VDC  
Pg. 52



LNP-0800-24 Series



## 8-Port Industrial Gigabit PoE+ Unmanaged Ethernet Switch

- ▶ 8-Port 10/100Tx Ethernet with IEEE 802.3 Compliant PoE+
- ▶ IP30 Rugged Aluminum Case Design
- ▶ Store-and-Forward Switching Architecture
- ▶ Redundant Power Input Design: 12~36VDC  
Pg. 46



LNP-0500G Series



## 5-Port Industrial Gigabit PoE+ Unmanaged Ethernet Switch

- ▶ 4-Port 10/100/1000Tx Ethernet with IEEE 802.3at/af Compliant
- ▶ 1-Port 10/100/1000Tx Ethernet, Auto MDI
- ▶ IP30 Rugged Metal Case Design
- ▶ Redundant Power Input Design: 48~55VDC  
Pg. 47



# INDUSTRIAL WIRELESS

ARX-7234-AC-PD-T



## Industrial Outdoor IP67 Metal Housing Dual Radio Wireless AP/Client/Bridge/Repeater with PoE PD

- ▶ IP67 Metal Housing
- ▶ Dual Radios (2.4GHz/5GHz Concurrent)
- ▶ Supports IEEE 802.11a/b/g/n/ac
- ▶ Supports IEEE 802.3af/at Compliant
- ▶ Power Input: PoE 48~56VDC  
Pg. 78



ARS-7234-AC-T



## Industrial Dual Radio Wireless Access Point/Client/Bridge/Repeater

- ▶ Dual Radios (2.4GHz/5GHz Concurrent)
- ▶ Reverse Polarity Protection
- ▶ Supports Ethernet Gigabit WAN/LAN Port
- ▶ Supports IEEE 802.11a/b/g/n/ac
- ▶ Redundant Power Input: 9~24VDC (2-Pin Terminal Block)  
Pg. 78



ARY-7234-AC-PD



## Industrial Outdoor IP67 Plastic Housing Dual Radio Wireless AP/Client/Bridge/Repeater with PoE PD

- ▶ IP67 Plastic Housing
- ▶ Dual Radios (2.4GHz/5GHz Concurrent)
- ▶ Supports IEEE 802.11a/b/g/n/ac
- ▶ Supports IEEE 802.3af/at
- ▶ Power Input: PoE 48~56VDC  
Pg. 78



AMS-2111 Series



## Industrial Wireless (WiFi) LAN Access Point/Client/Bridge/Repeater

- ▶ 2-Port 10/100Tx WAN/LAN
- ▶ Supports IEEE 802.11 b/g/n
- ▶ Qualcomm/Atheros AR9331 SoC
- ▶ Compact IP30 Industrial Wireless Design
- ▶ Redundant Power Input: 9~48VDC  
Pg. 79



AMS-7131-AC Series




## Industrial Wireless (WiFi) LAN Access Point/Client/Bridge/Repeater

- ▶ Supports IEEE 802.11 a/b/g/n/ac
- ▶ Supports AP, Client, Bridge, Router, and Repeater Mode
- ▶ Daisy Chain Support to Reduce Usage of Switch Ports
- ▶ Secured Management by HTTPS and SSH
- ▶ Redundant Power Input: 12~48VDC  
Pg. 79

IMC-C100-XX Series



## Compact 110/100TX to 100FX Industrial Media Converter

-  ▶ 1-Port 10/100Tx Fast Ethernet
-  ▶ 1-Port 100Fx SC/ST Connector (Multi/Single-Mode)
-  ▶ Compact IP30 Industrial Media Converter Design
-  ▶ Redundant Power Input: 12~48VDC  
Pg. 68



IMC-C1000-XX Series



## Compact Industrial Gigabit Ethernet Media Converter

- ▶ 1-Port 10/100/1000Tx Gigabit Ethernet
- ▶ 1-Port 1000x SC/ST Connector (Multi/Single-Mode)
- ▶ Compact IP30 Industrial Media Converter Design
- ▶ Redundant Power Input: 12~48VDC  
Pg. 68



IMC-C1000-SFP Series



## Compact 10/100/1000TX to 100/1000SX/LX Industrial Gigabit Ethernet Converter

- ▶ 1-Port 10/100/1000Tx Gigabit Ethernet
- ▶ 1-Port 100/1000Fx SFP Slot
- ▶ Compact IP30 Industrial Media Converter Design
- ▶ Redundant Power Input: 12~48VDC  
Pg. 66



EVC-3101



## Ethernet Over VDSL2 Converter

- ▶ 1-Port 10/100/1000Tx Ethernet
- ▶ 1\*RJ11 Connector for VDSL Port with VDSL Connection
- ▶ Compact Design VDSL 2 Profile 30a CO/CPE Bridge Solution
- ▶ CO/CPE Mode Selectable via DIP Switch
- ▶ VDSL2 Standalone Transceiver for Simple Bridge Modem Application  
Pg. 74



**Preliminary**

INJ-0200G-60-24-T



## Industrial Gigabit PoE/PoE+ Injector

- ▶ 1-Port 10/100/1000Tx Ethernet (Data & PoE up to 60W)
- ▶ 1-Port 10/100/1000Tx Ethernet (Data)
- ▶ IEEE 802.3af/at PoE/PoE+ Compliant
- ▶ Rugged IP30 Rated Metal Casing Design
- ▶ Dual Low Voltage Power Input Support: 48~55VDC  
Pg. 65

# INDUSTRIAL SERIAL CONNECTIVITY

STM-601C Series



## Industrial Modbus to 1-Port Serial (232,422,485) RTU/ASCII Gateway

- ▶ 2\*10/100 Mbps Ethernet Ports for LAN Redundancy
- ▶ 1\*DB9 Male Port
- ▶ Integrates Modbus TCP and Modbus RTU/ASCII Networks
- ▶ Power Polarity Reverse Protection
- ▶ Redundant Power Input: 12-48VDC  
Pg. 84



STM-602C Series



## Industrial Modbus TCP to 2-Port Serial (232,422,485) RTU/ASCII Gateway

- ▶ 2\*10/100 Mbps Ethernet Ports for LAN Redundancy
- ▶ 2\*DB9 Male Ports
- ▶ Integrates Modbus TCP and Modbus RTU/ASCII Networks
- ▶ Power Polarity Reverse Protection
- ▶ Redundant Power Input: 12-48VDC  
Pg. 84



STM-604C Series



## Industrial Modbus TCP to 4-Port Serial (232,422,485) RTU/ASCII Gateway

- ▶ 2\*10/100 Mbps Ethernet Ports for LAN Redundancy
- ▶ 4\*DB9 Male Ports
- ▶ Integrates Modbus TCP and Modbus RTU/ASCII Networks
- ▶ Power Polarity Reverse Protection
- ▶ Redundant Power Input: 12-48VDC  
Pg. 84



STF-300C Series



## RS-232/422/485 to Fiber Converter

- ▶ Extend Serial Transmission from 20km over Single Strand Fiber (WDM)
- ▶ Selectable Data I/F for RS-232/422/423/485/ITL
- ▶ Selectable for Two or Four Wire RS-422/485 Wiring
- ▶ Plug and Play and Compact Size  
Pg. 86



STS-1915 Series



## RS-232 to 422/485 Converter

- ▶ Easy RS-422/485 Conversion from RS-232 Port
- ▶ Automatic Baud Rate Detection
- ▶ DB9-Female (RS-232) to 5-pin Terminal Block Connector Conversion
- ▶ RS-485 Auto Transceiver Turn Around with ATTA Hardware
- ▶ No Driver Required for All Operating Systems  
Pg. 87

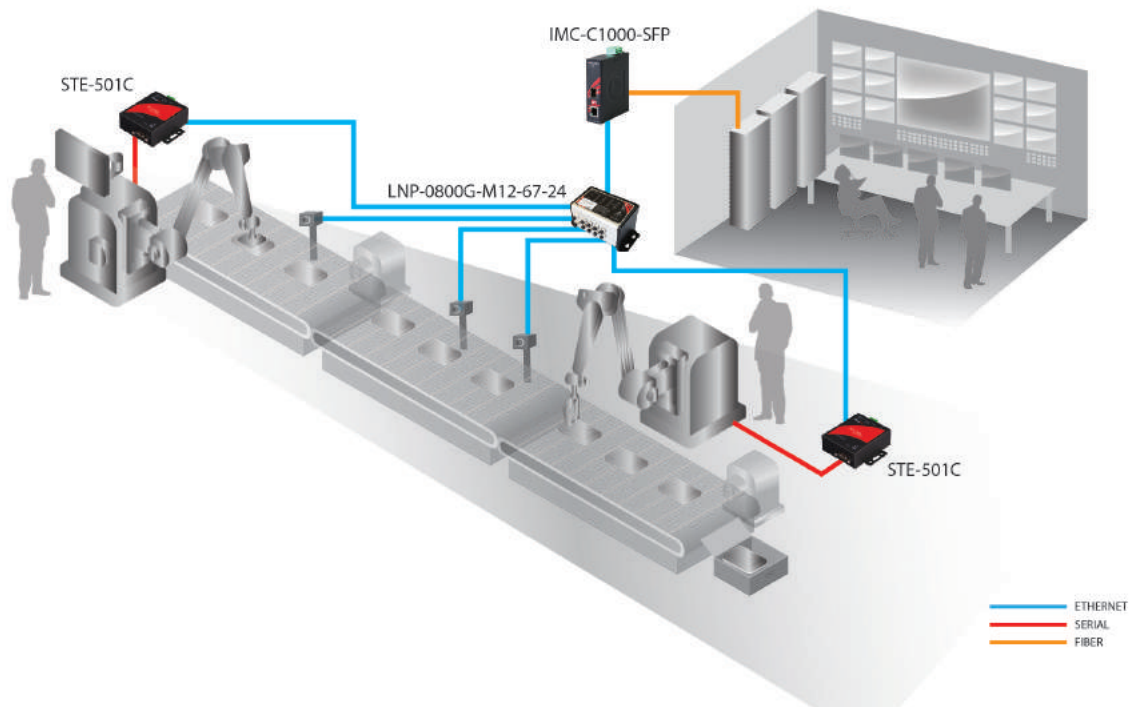


**APPLICATION  
NOTES**

# AUTOMATION

## Automated Assembly Line

### Key Products



### APPLICATION

Reliably network an assembly line with solid connectivity devices to eliminate downtime in high vibration areas

### APPLICATION REQUIREMENTS

- Provide M12 gigabit connectivity near conveyor belts
- Ethernet communication with legacy equipment using serial communication
- Convert Ethernet to fiber for extended cable runs

### SOLUTION

#### STE-501C:

Provides network connectivity for legacy serial equipment

- Provides a self-healing redundant network solution

#### LNP-0800G-M12-67-24:

Guarantees tight secure Ethernet connectivity in applications subject to high vibration and shock

- Gigabit communications for bandwidth intensive applications
- Power sourcing at 30 watts of power per port for PoE devices

#### IMC-C1000-SFP:

Provides a RealCom solution for serial equipment to Ethernet

#### STE-501C

RS-232/422/485 to Ethernet Device Server



- Windows Based Utility for IP Configuration
  - Supports Multiple Link Mode with TCP Server/Client, UDP, and Virtual COM Mode
- Pg. 82

#### LNP-0800G-M12-67-24

Industrial M12 IP67 Waterproof Gigabit PoE+ Ethernet Switch



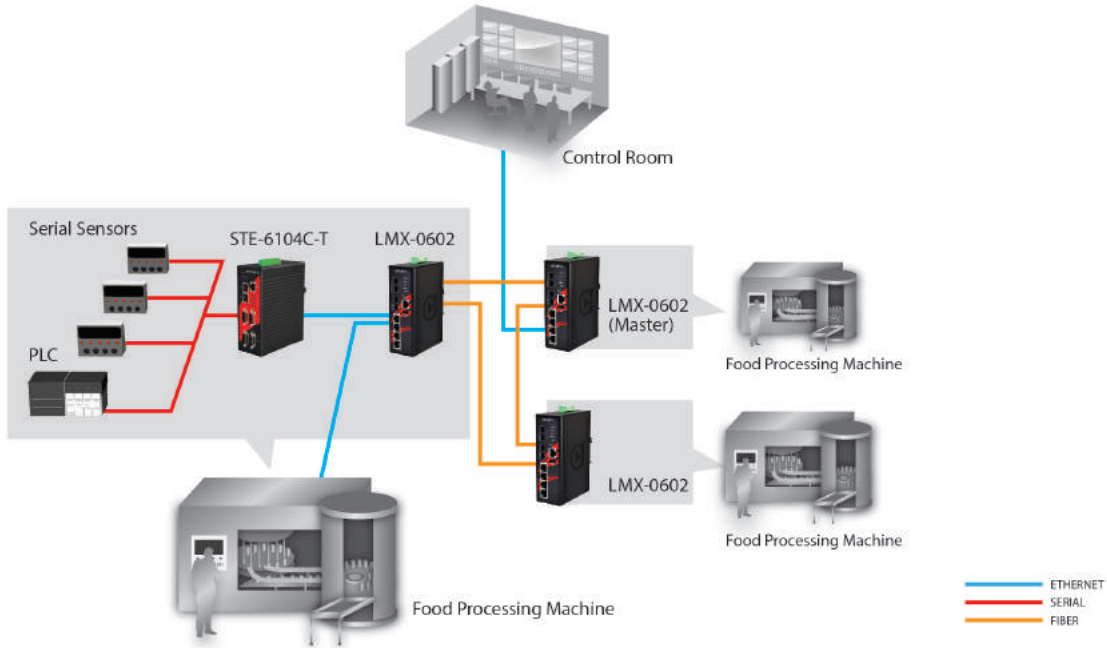
- 8-Port 10/100/1000Tx Ethernet with IEEE 802.3at Compliant PoE+
  - Bypass Design for Daisy Chain Redundancy
- Pg. 49

#### IMC-C1000-SFP

Compact Industrial Gigabit Ethernet Media Converter



- Compact UTP to Gigabit Fiber Media Converter
  - RJ-45 Port Support Auto MDI/MDI-X Function
  - Built-in Link Loss Forwarding (LLF) and Link-Fault-Pass-Through (LFP)
- Pg. 66



## 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

### LMX-0602 Series Industrial Managed Ethernet Switches



- Fully Managed Ethernet Switch w/4\*10/100Tx and 2\*100Fx Fiber Ports
- Supports STP/RSTP and Ring Redundant Network Function
- Web-Based Configuration  
[Pg. 38](#)

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



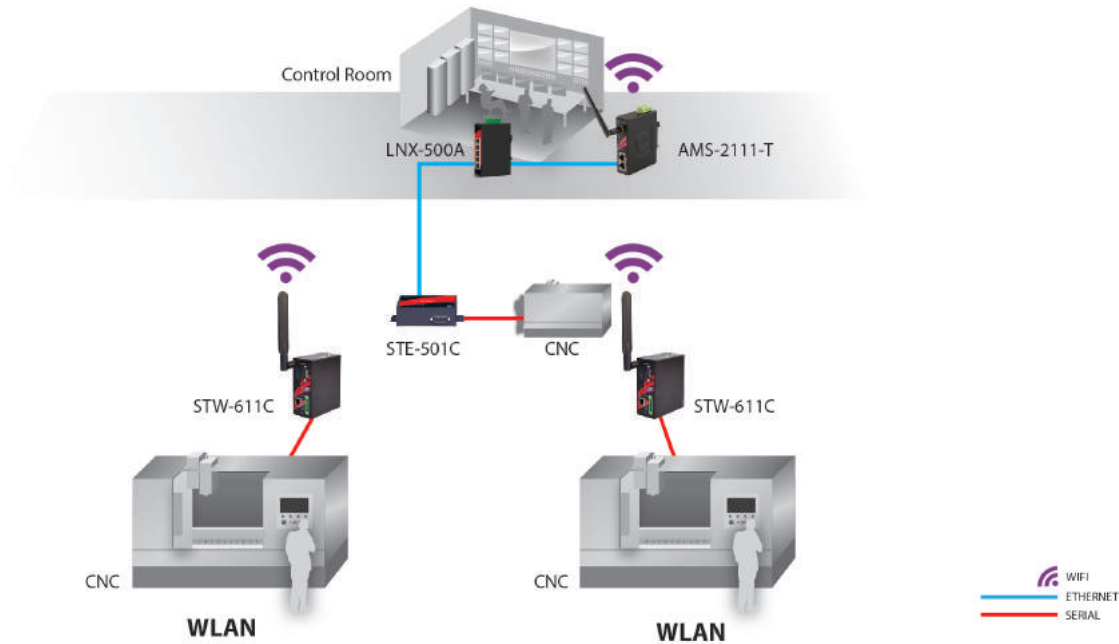
- 4\*RS232/422/485 Serial (Software Selectable) Ports
- Supports DUAL LAN (10/100Tx) Ports for Network or Data Redundancy Solutions
- Operation Modes: Virtual COM, TCP Server, TCP Client Mode, and UDP  
[Pg. 82](#)

### 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. 86](#)

# AUTOMATION CNC Shop Floor Key Products



## 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 hardwired or wireless connectivity option linking different CNC machines with serial devices to the network

### AMS-2111-T:

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



**AMS-2111-T**  
Industrial Compact Wireless  
LAN Access Point/Client/Repeater

- Supports 2\*10/100Base-TX WAN/LAN Ports
- IP30 Protection
- Supports IEEE 802.11b/g/n  
Pg. 79



**STE-501C**  
Industrial Serial to Ethernet  
Device Server

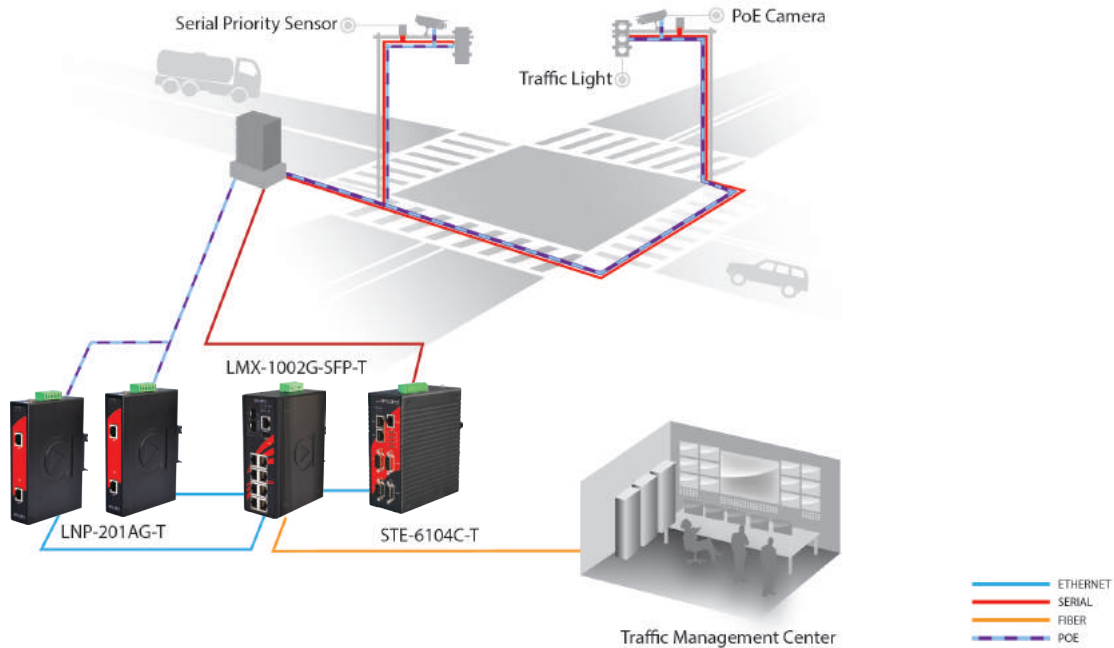
- 1\*RS232/422/485 Serial (Software Selectable) Port and 1\*10/100Tx Ethernet Port
- Configurable via Built-in Web Server, Serial Console, or Telnet
- Operation Modes: Virtual COM, TCP/UDP Server/Client and Tunneling  
Pg. 82



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

- 1\* RS232/422/485 Software Selectable Serial Port and 1\*10/100 RJ45 Port
- IEEE 802.11 b/g/n Compliant w/ WEP/WPA/ WPA2, 802.1x Security
- Simultaneous Serial, Ethernet, and Wireless 3-Way Communication  
Pg. 85





## APPLICATION

Network and monitor city intersections

## APPLICATION REQUIREMENTS

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

## SOLUTION

### LMX-1002G-SFP-T:

Supports extended operating temperature of -40°C to 75°C 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 RealCom solution for serial equipment to Ethernet, no application software change

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

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



- 10/100/1000 PoE Injector
  - IEEE 802.3at Compliant
  - Supports Extended Operating Temperature: -40°C to 75°C
- Pg. 65

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



- 4\*RS232/422/485 Serial Ports (Software Selectable) and 2\*10/100 RJ45 Ports
  - Operation Modes: Virtual COM, TCP/UDP, and Tunnel
  - Power Input: 9 to 48VDC
- Pg. 82

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



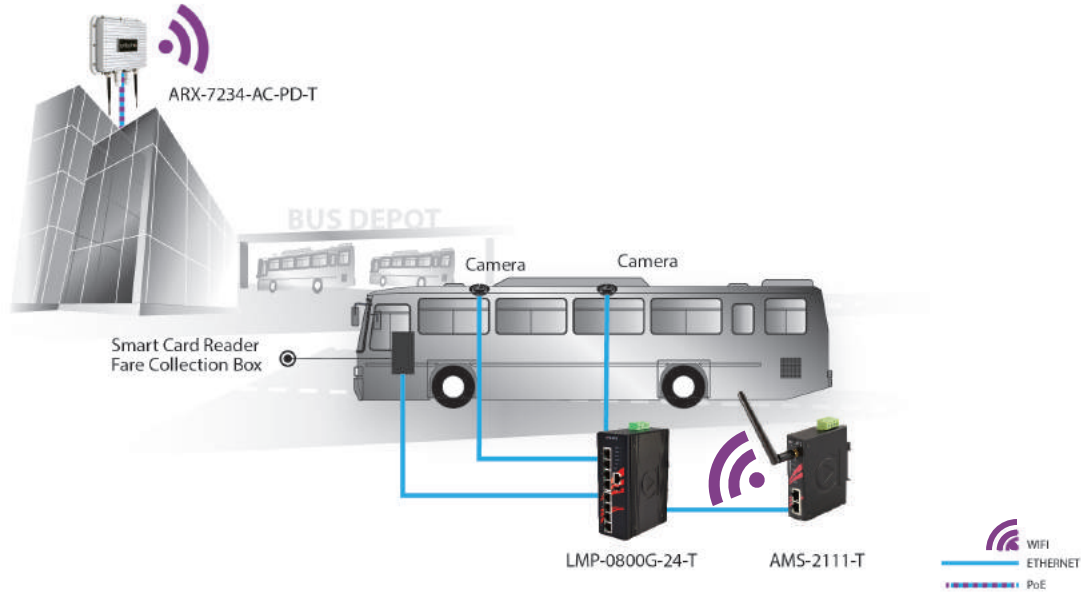
- 10-Port Fully Managed Ethernet Switch with 8\*10/100/1000Tx + 2\*100/1000 SFP Dual Rate SFP Ports
  - Ring Redundancy Function (<50 ms Recovery Time)
  - SNMP, Web Management, and RMON Management IP Security
- Pg. 41



# TRANSPORTATION

## Bus Depot

### Key Products



### 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

#### LMP-0800G-24-T:

Provides ability for on-board serial smart card readers to download or update passenger fare data to the bus depot

#### AMS-2111-T:

Provides a secure and reliable wireless network on-board

#### ARX-7234-AC-PD-T:

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

#### LMP-0800G-24-T

##### Industrial Gigabit PoE+ Managed Ethernet Switch



- Supports 8\*10/100/1000Tx IEEE 802.3at/af Compliant with 30W/Port
  - Network Redundancy: STP/RSTP/MSTP and G.8032 ERPS (Recovery Time 50ms)
  - PoE Ping Alarm Function for PoE Ports Power Recycle
- Pg. 55

#### ARX-7234-AC-PD-T

##### Industrial Outdoor Dual Radio Wireless AP/Client/Bridge/Repeater



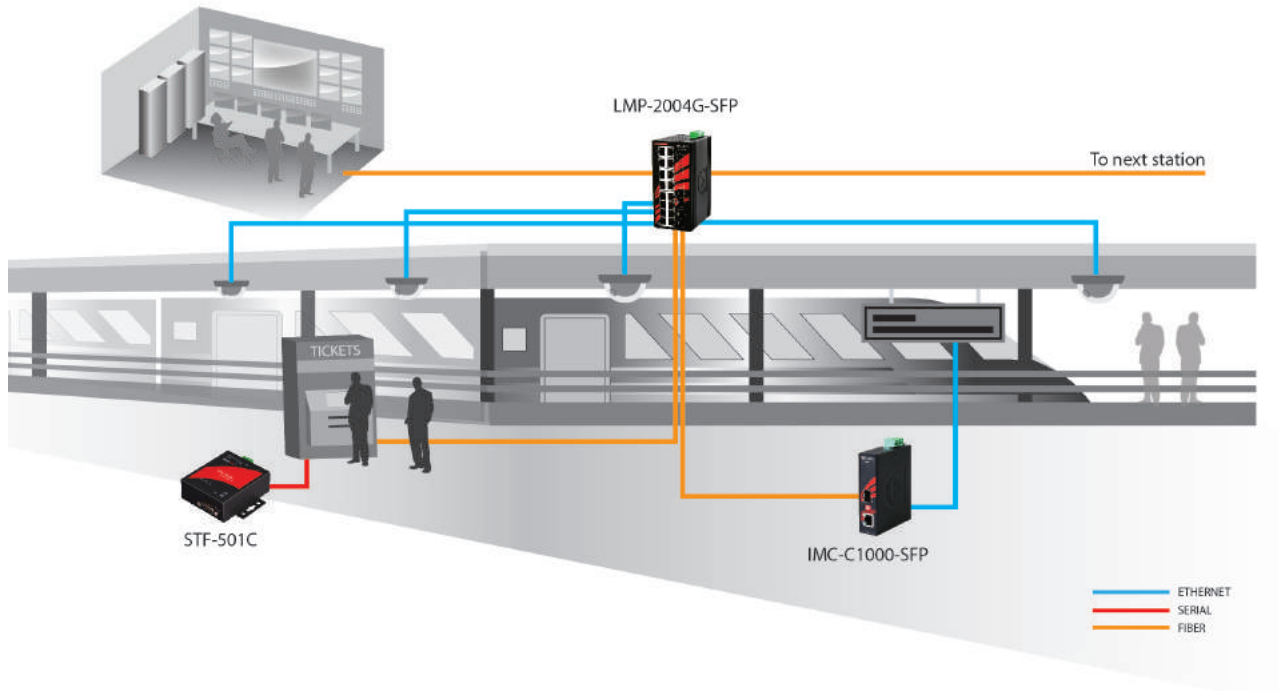
- IP67 Metal Housing
  - WEP, WPA, WPA2, TKIP, AES
  - PD (Powered Device) IEEE 802.3af/at Compliant
- Pg. 78

#### AMS-2111-T

##### Industrial Compact Wireless LAN Access Point/Client/Repeater



- Supports 2\*10/100Base-TX WAN/LAN Ports
  - IP30 Protection
  - Supports IEEE 802.11b/g/n
- Pg. 79



## APPLICATION

Network and monitor light rail stations

## APPLICATION REQUIREMENTS

- Provide Ethernet connectivity
- Integration with legacy ticket systems
- Real-time monitoring from an off-site control station

## SOLUTION

### LMP-2004G-SFP:

Provided connectivity for security cameras, announcing system, station sensors, and alarms

- Managed, large port count gigabit industrial network switch with PoE/PoE+ capabilities

### IMC-C1000-SFP:

Provides gigabit connectivity to message boards at extended distances

- The compact design is ideal for applications that have space restrictions

### STF-501C:

Integrates modern fiber connectivity with legacy serial systems for cost effective implementation

- EMI resistant for IEDs data transmissions in areas with high voltage fluctuations

### LMP-2004G-SFP Industrial Gigabit Managed Ethernet Switch



- 16\*10/100/1000Tx Ethernet Ports and 4\*100/1000 Dual Rate SFP Slots
  - Network Redundancy: STP/RSTP/MSTP, and G.8032 ERPS (Recovery Time 50ms)
  - Network Filtering and Security: IGMP, VLANs, QoS, SNMP, Port Lock, RMON, Modbus TCP, and 802.1X
- Pg. 59

### IMC-C1000-SFP Compact Industrial Gigabit Ethernet Media Converter



- Gigabit Ethernet Port Supports IEEE 802.3at High Power PoE Supplying up to 30 Watts
  - 48~55VDC Redundant Power Inputs with Reverse Polarity and Overload Current Protection
  - Built-in "Link Fault Pass Through" (LFP) and "Far End Fault" (FEF) Function
- Pg. 66

### STF-501C Industrial RS-232/422/485 to Fiber Converter

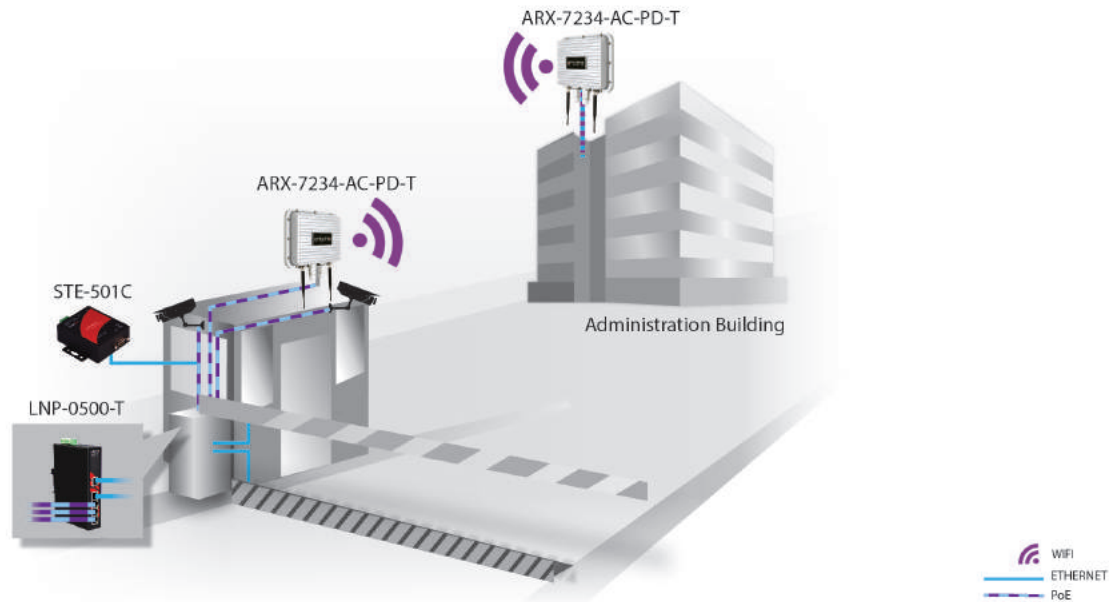


- 8KV ESD Protection and 2.5KV Isolation for Serial Data Transmission Protection
  - Fanless and Din-Rail Design for Harsh Industrial Environment
- Pg. 86

# SECURITY

## Security Gate Surveillance

### Key Products



### 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

#### ARX-7234-AC-PD-T:

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

#### STE-501C:

Provides network data transmission to gate controller

#### LNP-0500-T

**Industrial PoE+ Unmanaged Ethernet Switch**



- 4\*10/100Tx (PSE: 30W/Port) and 1\*10/100Tx Fast Ethernet
  - High Protection: EFT w/ 2KV and ESD w/ 6KV
  - Supports Extended Operating Temperature: -40°C to 75°C
- Pg. 44

#### ARX-7234-AC-PD-T

**Industrial Outdoor Dual Radio Wireless AP/Client/Bridge/Repeater**



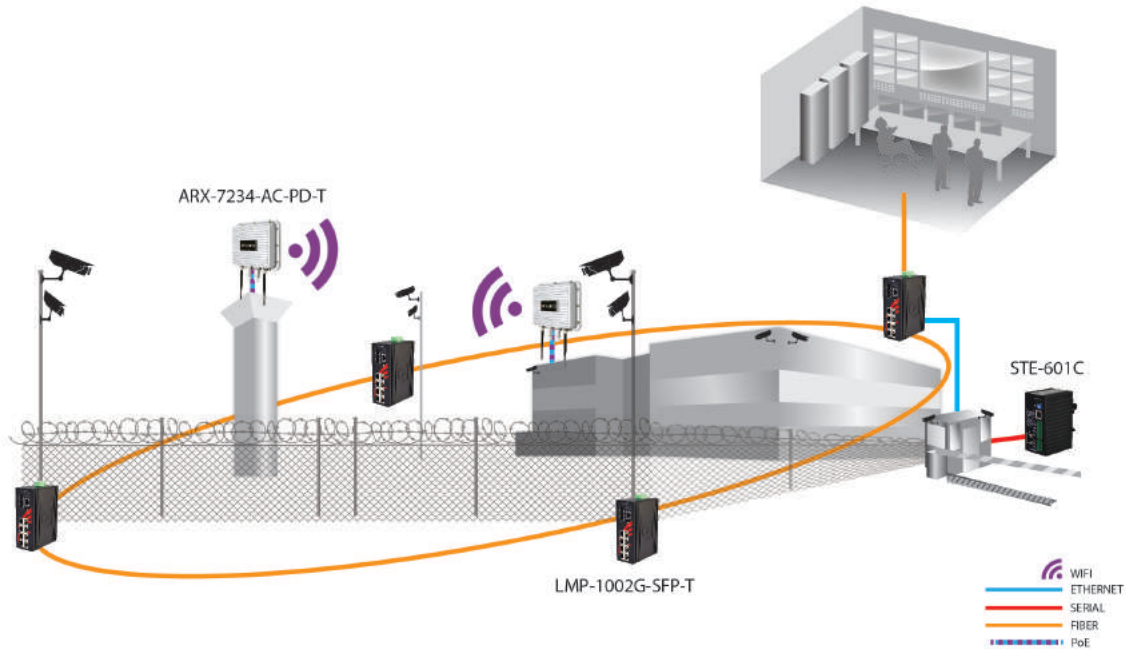
- IP67 Metal Housing
  - WEP, WPA, WPA2, TKIP, AES
  - PD (Powered Device) IEEE 802.3af/at Compliant
- Pg. 78

#### STE-501C

**RS-232/422/485 to Ethernet Device Server**



- Compact Size
  - Monitor, Manage, and Control Industrial Field Devices Remotely
  - Upgradeable Firmware from Remote-PC via Ethernet
- Pg. 82



**APPLICATION**

Real-time monitoring and wireless coverage for highly restricted areas

**APPLICATION REQUIREMENTS**

- Provide bandwidth intensive communication at extended distances
- Allow for network integration with serial-based actuators
- Wireless coverage of large areas with high data usage

**SOLUTION**

**STE-601C:**

Serial communication for gate actuators

- Ethernet communication allows for remote monitoring of serial devices

**LMP-1002G-SFP-T:**

Provides simple gigabit PoE connectivity to remote cameras at extended distances

- Simple management with intuitive GUI for easy configuration and implementation

**ARX-7234-AC-PD-T:**

Secure long-distance outdoor wireless deployment with IP67 metal housing

- IEEE 802.11 a/b/g/n/ac for bandwidth intensive application over wireless connection

**STE-601C Series**  
**Industrial RS-232/422/485 to Ethernet Device Server**



- Configurable via Built-in Web Server, Serial Console, Telnet, or Windows Based Utilities
  - Extends Distance for Point-to-Point Serial Connection
- Pg. 82**

**LMP-1002G-SFP-T**  
**Industrial PoE+ Managed Ethernet Switch**



- Supports 8\*10/100/1000Tx IEEE 802.3at/af Compliant with 30W/Port and 2\*100/1000 SFP Slots
  - Network Redundancy Support: RSTP/MSTP, and G.8032 ERPS (Recovery Time 50ms)
- Pg. 56**

**ARX-7234-AC-PD-T**  
**Industrial Outdoor Dual Radio Wireless AP/Client/Bridge/Repeater**

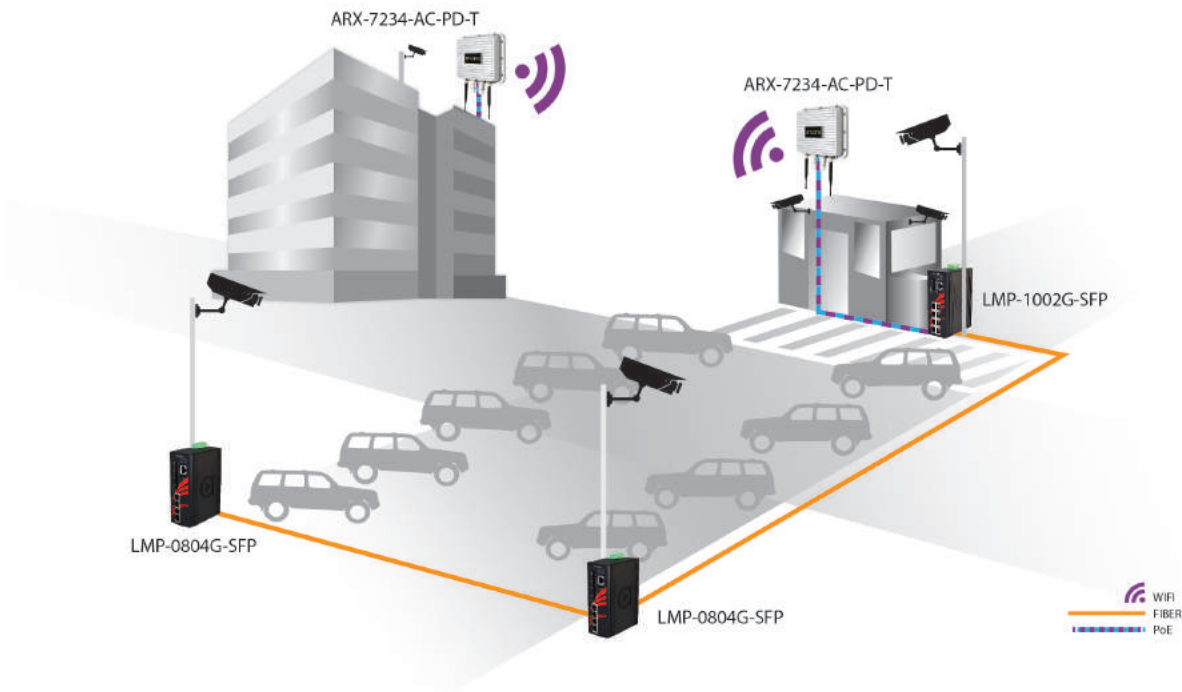


- High Speed WLAN (IEEE 802.11a/b/g/n/ac) Supports up to 867Mbps with Dual Radios (2.4GHz/5GHz Concurrent)
  - IP67 Metal Housing Pole, Wall Mountable, and Operating Temperature Range: -40° to 70°C
- Pg. 78**

# SECURITY

## Parking Lot Surveillance

### Key Products



### APPLICATION

Real-time parking lot surveillance with remote monitoring station

### APPLICATION REQUIREMENTS

- Secure wireless communication between offices and guard shack across a parking lot
- Provide power source and connectivity for remote cameras at extended distances
- Simple network management for remote switches

### SOLUTION

#### LMP-1002G-SFP:

Provides PoE power for cameras and wireless access point located throughout parking lot

- Fully managed layer 2 core industrial Ethernet switch with dual SFP slots for extended communication

#### LMP-0804G-SFP:

Provides simple Gigabit Ethernet PoE connectivity to remote cameras at extended distances

- Management feature controls PoE ports and is able to reset connected PoE devices

#### ARX-7234-AC-PD-T:

Secure long-distance outdoor wireless deployment with IP67 metal housing

- IEEE 802.11 a/b/g/n/ac for bandwidth intensive application over wireless connection

#### LMP-1002G-SFP

**Industrial PoE/PoE+  
Managed Ethernet Switch**



- Supports 8\*10/100/1000Tx IEEE 802.3at/af Compliant with 30W/Port and 2\*100/1000 SFP Slots
- Network Redundancy Support: RSTP/MSTP, and G.8032 ERPS (Recovery Time 50ms)  
Pg. 56

#### LMP-0804G-SFP

**Industrial PoE  
Managed Ethernet Switch**



- Supports 4\*10/100/1000Tx IEEE 802.3at/af Compliant with 30W/Port and 4\*100/1000 SFP Slots
- Network Redundancy Support: RSTP/MSTP, and G.8032 ERPS (Recovery Time 50ms)  
Pg. 56

#### ARX-7234-AC-PD-T

**Industrial Outdoor Dual Radio  
Wireless AP/Client/Bridge/Repeater**

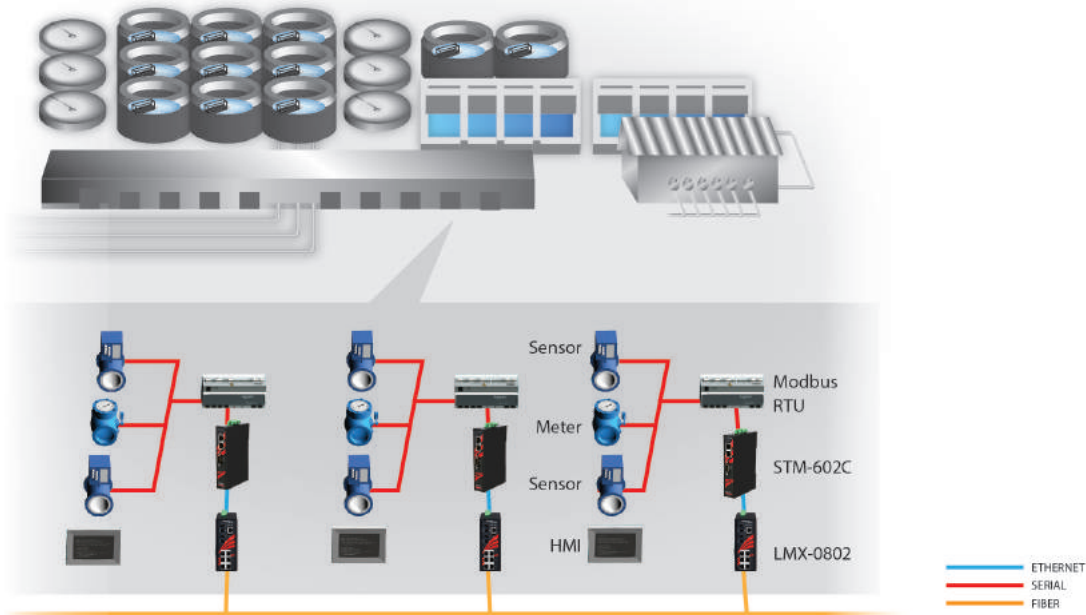


- IP67 Metal Housing
- WEP, WPA, WPA2, TKIP, AES
- Powered Device IEEE 802.3af/at Compliant  
Pg. 78

# WATER/WASTEWATER

## Water/Wastewater Treatment Plant

### Key Products



### 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:

Fully managed industrial Ethernet switch with a wide temperature range to ensure high levels of data transmission and guarantees a redundant network with a fast network recovery time <50ms (ERPS)

#### STM-602C:

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

#### STE-6104C-T:

Provides single or multiple RS232/422/485 connections for bridging legacy serial measurement devices to transmit data back and forth remotely from a control center

#### LMX-0802 Series Industrial Managed Ethernet Switches



- Fully Managed Industrial Ethernet Switch w/ 6\*10/100Tx and 2\*100Fx Fiber Ports
  - Supports STP/RSTP and Ring Redundancy Function (<50ms Recovery Time)
  - Supports SNMP, Web Console, RMON, VLAN, IGMP, QoS, and Event Handling
- Pg. 39

#### STM-602C Industrial Modbus TCP to Serial RTU/ASCII Gateway



- 2\*10/100 Mbps Ethernet Ports for LAN Redundancy
  - Integrates Modbus TCP and Modbus RTU/ASCII Networks
  - Software-Selectable RS-232/422/485 Communication
- Pg. 84

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



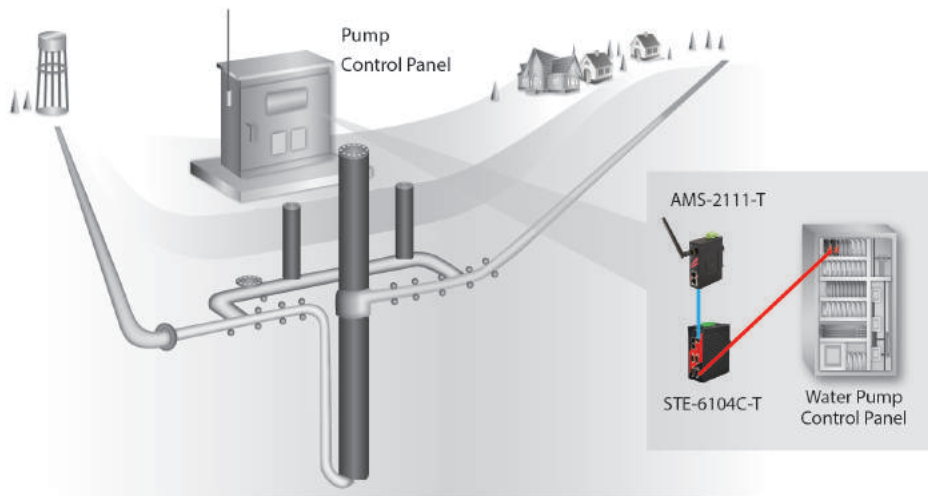
- 4-Port RS232/RS422/RS485, Baud Rate up to 921Kbps
  - Supports DUAL LAN (10/100Tx) Ports for Network or Data Redundancy Solutions
  - Operation Modes: Virtual COM, TCP/UDP Server/Client, and Tunneling
- Pg. 82



# WATER/WASTEWATER

## Remote Location Data Collection

### Key Products



ETHERNET  
SERIAL

### APPLICATION

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

### APPLICATION REQUIREMENTS

- Real-time serial to Ethernet connectivity solution for legacy serial-based devices
- Ability to adapt a wireless VPN 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

#### AMS-2111-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

#### 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. 82

#### AMS-2111-T

##### Industrial Compact Wireless LAN Access Point/Client/Repeater



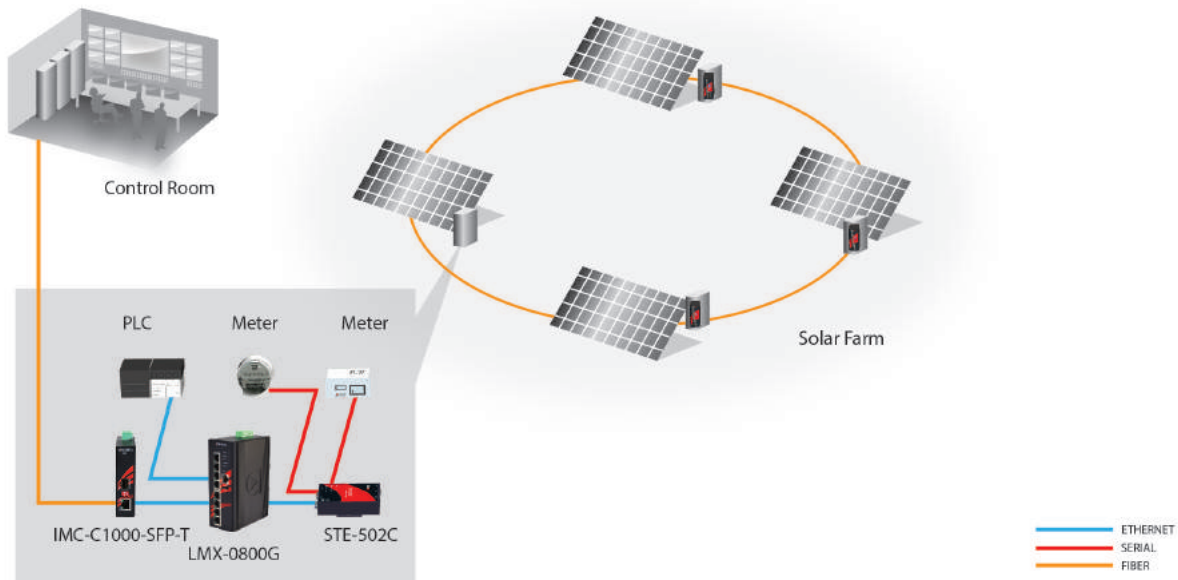
- Supports 2\*10/100Base-TX WAN/LAN Ports
- IP30 Protection
- Supports IEEE 802.11b/g/n  
Pg. 79

#### LNP-0500-24

##### Industrial 5-Port PoE+ Unmanaged Ethernet Switch



- 4\*10/100Tx PoE/PoE+ Ports (PoE Power up to 30W/Port) + 1\*10/100Tx
- High Protection: Surge-2KV and ESD-6KV
- Dual Redundant Power Input from 12 to 36VDC  
Pg. 42



## APPLICATION

Remotely 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-0800G:

A fully managed 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

### LMX-0800G Series Industrial Gigabit Managed Ethernet Switch



- Supports 8\*10/100/1000Tx Gigabit Ports
  - Network Redundancy Support: RSTP/MSTP, and G.8032 ERPS (Recovery Time <50ms)
  - Enhanced Network Security with IEEE802.1X, SNMP v1/v2c/v3, HTTPS, and SSH/SSL
- Pg. 40

### 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. 82

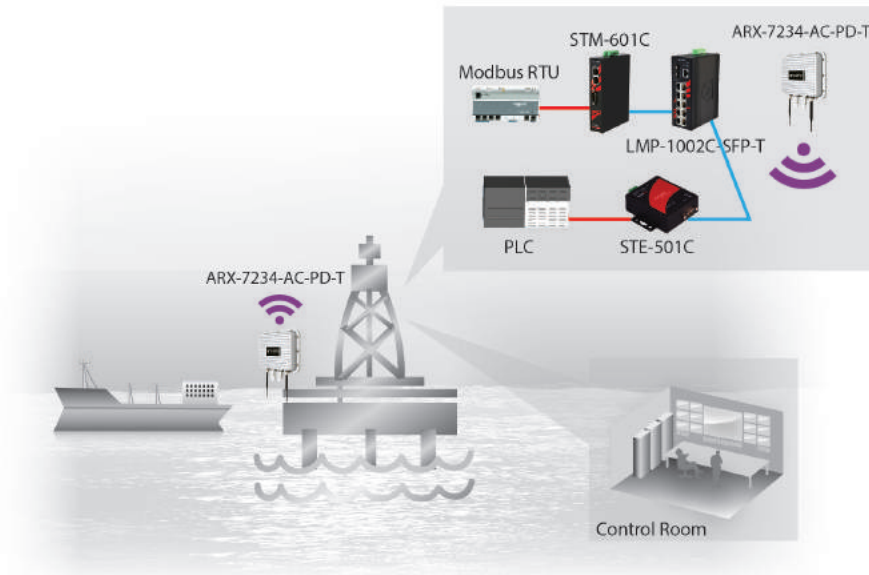
### IMC-C1000-SFP-T Compact Industrial Media Converter



- 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. 66



# OIL AND GAS Offshore Platform Key Products



## 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
- Wirelessly link across the oil platform

## SOLUTION

### ARX-7234-AC-PC-T:

Eliminates 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-601C:

Provides a Modbus gateway solution to connect Modbus RTU/ASCII/485 devices to a Modbus TCP network

### STE-501C:

Provides 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 ARX-7234-AC-PD-T

### STM-601C

**Industrial Modbus TCP to  
Serial RTU/ASCII Gateway**



- 2\*10/100 Mbps Ethernet Ports for LAN Redundancy
  - Software-Selectable RS-232/422/485 Communication
  - Supports up to 16 Connections per Serial Port Under Modbus Master Mode and 32 Sessions Under Modbus Slave Mode
- Pg. 84

### LMP-1002C-SFP-T

**Industrial PoE/PoE+  
Gigabit Managed  
Ethernet Switch**



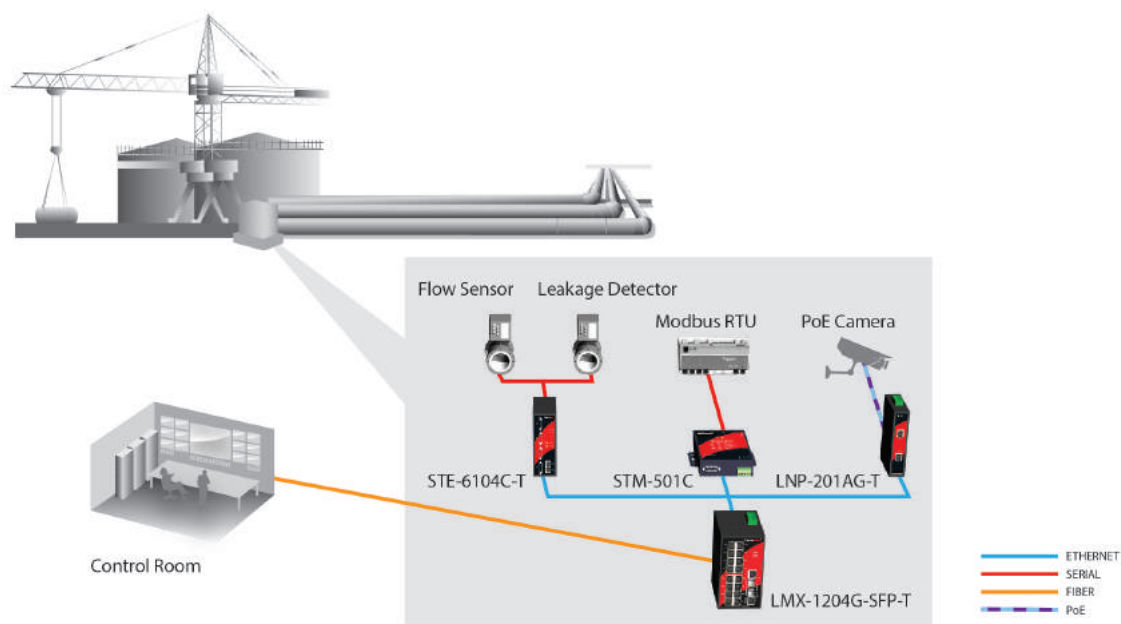
- Ethernet Ring Redundancy Function (<50 ms Recovery Time)
  - 10-Port Fully Managed Ethernet Switch w/ 8\*10/100Tx and 2\*100/1000Fx Dual Rate SFP Slots
  - Supports SNMP, Web Management, IGMP, QoS, and VLAN
- Pg. 56

### STE-501C

**RS-232/422/485 to  
Ethernet Device Server**



- Compact Size
  - Monitor, Manage, and Control Industrial Field Devices Remotely
  - Upgradeable Firmware from Remote-PC via Ethernet
- Pg. 82



## 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

### 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. 82

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



- 8\*10/100/1000TX and 4\*100/1000 Gigabit Fiber SFP Slots
- Network Redundancy with Market Standard G.8032 ERPS <50ms
- Pre-Loaded Fully Managed Layer 2 Network Management Software with VLAN, QoS, IGMP, and SNMP Support  
Pg. 41

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

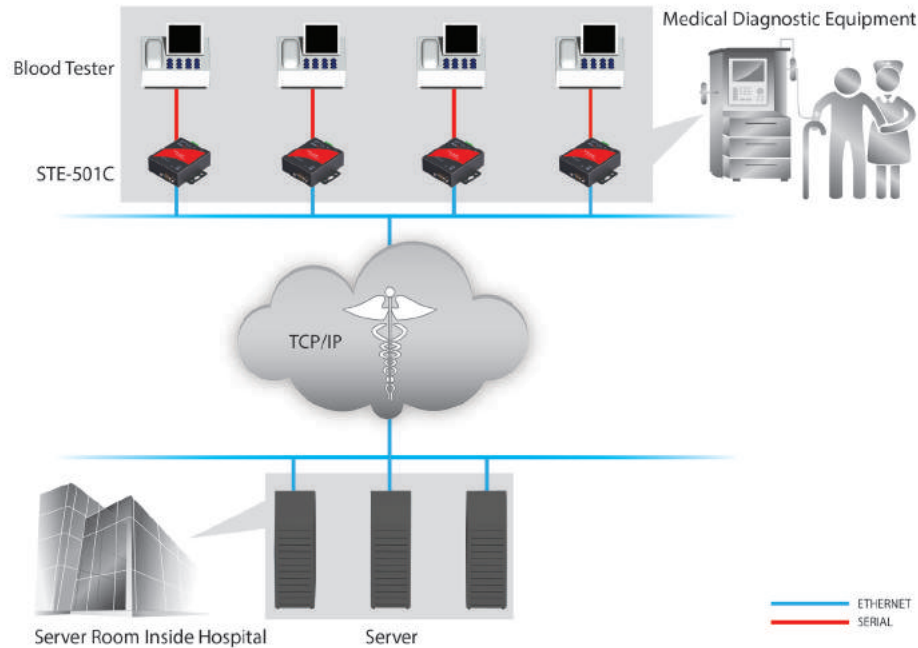


- 10/100/1000 PoE Injector
- IEEE 802.3at Compliant
- Power Input 24/48 VDC  
Pg. 65

# MEDICAL

## Remote Diagnostic Monitoring System

### Key Products



### 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 thus increasing staff productivity
- Real-time data transfer makes diagnosis more efficient



**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, and Tunneling  
Pg. 82



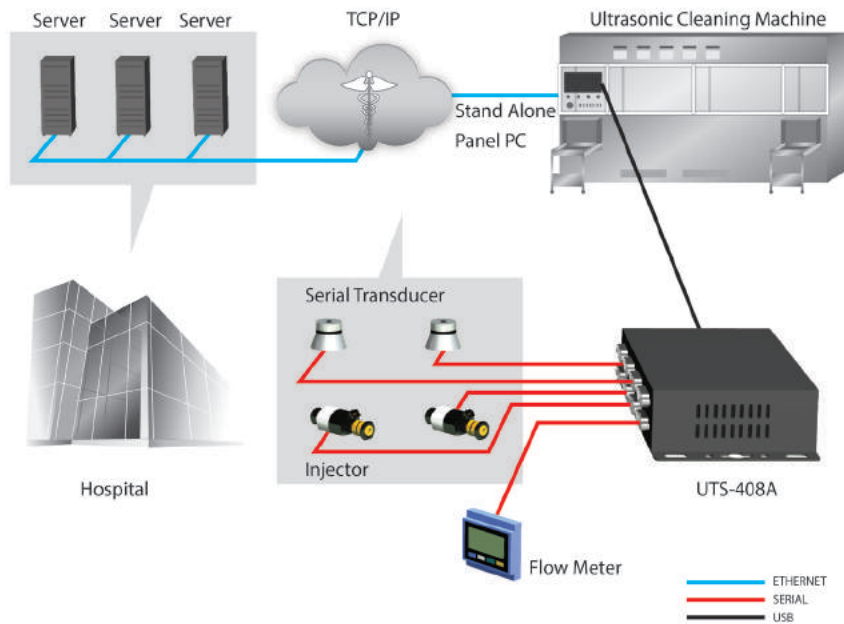
**UTS-408A**  
8-Port Industrial USB to  
Serial (RS232) Converter

- 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. 91



**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, and Tunneling  
Pg. 82



## 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

### UTS-416AK:

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

### MSC-202AL1:

Installing a serial to Ethernet device server allows medical equipment to securely transmit and access patient data



**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

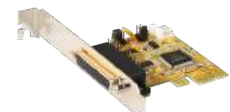
Pg.91



**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.91



**MSC-202AL1**  
RS-232 PCI  
Express Card

- Full x1 PCI Express Throughput, 250Mbytes/sec
- 2\*RS-232 Ports over an Octopus Cable
- Baud Rate up to 921.6Kbps

Pg.89



PRODUCT SELECTION GUIDE  
**INDUSTRIAL  
ETHERNET**

# INDUSTRIAL 10/100 UNMANAGED ETHERNET SWITCHES

Industrial Ethernet



Model Names	LNX-500A Series	LNX-C500 Series	LNX-0500-M12-67 Series	LNX-0501-XX Series
<b>Specifications</b>				
Total Port Count	5-Port	5-Port	5-Port	5-Port
<b>Switch Properties</b>				
Jumbo Frame Support	-	9.6Kbytes	-	-
MAC Table Size	2K	8K	8K	2K
<b>Interface</b>				
Ethernet Port	5*10/100Tx Auto MDI/MDI-X Connection	5*10/100Tx Auto MDI/MDI-X Connection	5*10/100Tx (M12-4-Pole D-Coded)	4*10/100Tx Auto MDI/MDI-X Connection
Fiber Port	-	-	-	(SC/ST) 1*100Fx (Multi-Mode 2km / Single-Mode 30km)
Wavelength	-	-	-	1310nm/1550/1300
<b>Protection</b>				
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
<b>Power Requirements</b>				
Input Voltage	12 to 48VDC, Redundant Input	12 to 48VDC, Redundant Input	12 to 48VDC, Redundant Input (M12- A-Coded)	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	(M12- A-Coded)	1 Removable 6-Contact Terminal Block
Reverse Polarity Protection	Yes	Yes	Yes	Yes
Power Consumption	2.93W	5W	5W	6.5W
<b>Mechanical Characteristics</b>				
Housing	Metal, IP30 Protection	Metal, IP30 Protection	Plastic, IP67 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
<b>Environmental Limits</b>				
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%, IP67 (Non-Condensing)	5 to 95%, (Non-Condensing)
<b>Regulatory Approvals</b>				
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

# INDUSTRIAL 10/100 UNMANAGED ETHERNET SWITCHES



Model Names	LNX-0602-XX Series	LNX-800A Series
<b>Specifications</b>		
Total Port Count	6-Port	8-Port
<b>Switch Properties</b>		
Jumbo Frame Support	-	-
MAC Table Size	2K	2K
<b>Interface</b>		
Ethernet Port	4*10/100Tx Auto MDI/MDI-X Connection	8*10/100Tx Auto MDI/MDI-X Connection
Fiber Port	(SC/ST) 2*100Fx (Multi-Mode 2km / Single-Mode 30km)	-
Wavelength	1310nm/1550/1300	-
<b>Protection</b>		
EFT Protection	2,000 VDC for Power Line	3,000 VDC for Power Line
ESD Protection	6,000 VDC for Ethernet	4,000 VDC for Ethernet
<b>Power Requirements</b>		
Input Voltage	12 to 48VDC, Redundant Input	12 to 48VDC, Redundant Input
Overload Current Protection	Present	Present
Connection	1 Removable 6-Contact Terminal Block	1 Removable 6-Contact Terminal Block
Reverse Polarity Protection	Yes	Yes
Power Consumption	7.5W	2.93W
<b>Mechanical Characteristics</b>		
Housing	Metal, IP30 Protection	Metal, IP30 Protection
Dimensions	30 x 142 x 99 mm	30 x 142 x 99 mm
Weight	1.1 lbs.	1.0 lb.
Mounting	DIN-Rail & Wall Mounting	DIN-Rail & Wall Mounting
<b>Environmental Limits</b>		
Operating Temperature	STD: -10C to 70C EOT: -40C to 75C	STD: -10C to 70C EOT: -40C to 80C
Storage Temperature	-40C to 85C	-40C to 85C
Ambient Relative Humidity	5 to 95%, (Non-Condensing)	5 to 95%, (Non-Condensing)
<b>Regulatory Approvals</b>		
Green	RoHS Compliant	RoHS Compliant
Certifications	FCC, CE, UL 508	FCC, CE, UL, C1D2
Warranty	5 Years	5 Years

# INDUSTRIAL GIGABIT 10/100/1000 UNMANAGED ETHERNET SWITCHES

Industrial Ethernet



Model Names	LNX-500AG Series	LNX-C500G Series	LNX-0501G-SFP Series	LNX-0601G-SFP Series
<b>Specifications</b>				
Total Port Count	5-Port	5-Port	5-Port	6-Port
<b>Switch Properties</b>				
Jumbo Frame Support	9.6Kbytes	10Kbytes	9.6Kbytes	9.6Kbytes
MAC Table Size	8K	8K	8K	8K
<b>Interface</b>				
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
<b>Protection</b>				
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
<b>Power Requirements</b>				
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
<b>Mechanical Characteristics</b>				
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
<b>Environmental Limits</b>				
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)
<b>Regulatory Approvals</b>				
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



# INDUSTRIAL GIGABIT 10/100/1000 UNMANAGED ETHERNET SWITCHES



Model Names	LNX-0702C-SFP Series	LNX-0702G-SFP Series	LNX-800AG Series
<b>Specifications</b>			
Total Port Count	7-Port	7-Port	8-Port
<b>Switch Properties</b>			
Jumbo Frame Support	9.6Kbytes	9.6Kbytes	9.6Kbytes
MAC Table Size	8K	8K	8K
<b>Interface</b>			
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
Fiber Port	2*100/1000 SFP Slots	2*100/1000 SFP Slots	-
Wavelength	Refer to SFP Module	Refer to SFP Module	-
<b>Protection</b>			
EFT Protection	2,000 VDC for Power Line	2,000 VDC for Power Line	3,000 VDC for Power Line
ESD Protection	6,000 VDC for Ethernet	6,000 VDC for Ethernet	6,000 VDC for Ethernet
<b>Power Requirements</b>			
Input Voltage	12 to 48VDC, Redundant Input	12 to 48VDC, Redundant Input	12 to 48VDC, Redundant Input
Overload Current Protection	Present	Present	Present
Connection	1 Removable 6-Contact Terminal Block	1 Removable 6-Contact Terminal Block	1 Removable 6-Contact Terminal Block
Reverse Polarity Protection	Yes	Yes	Yes
Power Consumption	9W	9W	5W
<b>Mechanical Characteristics</b>			
Housing	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
Weight	1.1 lbs.	1.1 lbs.	1.0 lb.
Mounting	DIN-Rail & Wall Mounting	DIN-Rail & Wall Mounting	DIN-Rail & Wall Mounting
<b>Environmental Limits</b>			
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)
<b>Regulatory Approvals</b>			
Green	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
Warranty	5 Years	5 Years	5 Years

# INDUSTRIAL GIGABIT 10/100/1000 UNMANAGED ETHERNET SWITCHES

Industrial  
Ethernet



Model Names	LNX-0802C-SFP Series	LNX-1002C-SFP Series	LNX-1002G-SFP Series
<b>Specifications</b>			
Total Port Count	8-Port	10-Port	10-Port
<b>Switch Properties</b>			
Jumbo Frame Support	9.6Kbytes	9.6Kbytes	9.6Kbytes
MAC Table Size	8K	8K	8K
<b>Interface</b>			
Ethernet Port	6*10/100Tx Auto MDI/MDI-X Connection	8*10/100Tx Auto MDI/MDI-X Connection	8*10/100/1000Tx Auto MDI/MDI-X Connection
Fiber Port	2*Gigabit Combo Ports (2*10/100/1000Tx or 2*100/1000 SFP Slots)	2*Gigabit Combo Ports (2*10/100/1000Tx or 2*100/1000 SFP Slots)	2*100/1000 SFP Slots
Wavelength	Refer to SFP Module	Refer to SFP Module	Refer to SFP Module
<b>Protection</b>			
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
<b>Power Requirements</b>			
Input Voltage	12 to 48VDC, Redundant Input	12 to 48VDC, Redundant Input	12 to 48VDC, Redundant Input
Overload Current Protection	Present	Present	Present
Connection	1 Removable 6-Contact Terminal Block	1 Removable 6-Contact Terminal Block	1 Removable 6-Contact Terminal Block
Reverse Polarity Protection	Yes	Yes	Yes
Power Consumption	9W	9W	9W
<b>Mechanical Characteristics</b>			
Housing	Metal, IP30 Protection	Metal, IP30 Protection	Metal, IP30 Protection
Dimensions	46 x 142 x 99 mm	46 x 142 x 99 mm	46 x 142 x 99 mm
Weight	2.5 lbs.	2.5 lbs.	2.5 lbs.
Mounting	DIN-Rail & Wall Mounting	DIN-Rail & Wall Mounting	DIN-Rail & Wall Mounting
<b>Environmental Limits</b>			
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)
<b>Regulatory Approvals</b>			
Green	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
Warranty	5 Years	5 Years	5 Years

# INDUSTRIAL GIGABIT 10/100/1000 UNMANAGED ETHERNET SWITCHES



Model Names	LNx-1202G-SFP Series	LNx-1204G-SFP Series	LNx-1600G Series	LNx-1604G-SFP Series
<b>Specifications</b>				
Total Port Count	12-Port	12-Port	16-Port	16-Port
<b>Switch Properties</b>				
Jumbo Frame Support	9.6Kbytes	9.6Kbytes	9216Bytes	9.6Kbytes
MAC Table Size	8K	8K	8K	8K
<b>Interface</b>				
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
<b>Protection</b>				
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
<b>Power Requirements</b>				
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	12W	18W
<b>Mechanical Characteristics</b>				
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	67 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
<b>Environmental Limits</b>				
Operating Temperature	STD: -10C to 70C EOT: -40C to 75C	STD: -10C to 70C EOT: -40C to 75C	STD: -10C to 65C 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)
<b>Regulatory Approvals</b>				
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

Industrial Ethernet



Model Names	LNX-1802G Series	LNX-1802G-SFP Series	LNX-2004G-SFP Series	LNX-2602G-SFP Series
<b>Specifications</b>				
Total Port Count	18-Port	18-Port	20-Port	26-Port
<b>Switch Properties</b>				
Jumbo Frame Support	9.6Kbytes	9216Bytes	9216Bytes	9.6Kbytes
MAC Table Size	8K	8K	8K	8K
<b>Interface</b>				
Ethernet Port	16*10/100Tx RJ45 + 2*100/1000T (Combo Ports)	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*Mini-GBIC SFPs	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	Refer to SFP Module
<b>Protection</b>				
EFT Protection	3,000 VDC for Power Line	2,000 VDC for Power Line	2,000 VDC for Power Line	2,000 VDC for Power Line
ESD Protection	6,000 VDC for Ethernet	6,000 VDC for Ethernet	6,000 VDC for Ethernet	6,000 VDC for Ethernet
<b>Power Requirements</b>				
Input Voltage	12 to 48 VDC	12 to 48VDC, Redundant Input	12 to 48VDC, Redundant Input	110/240 VAC
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	AC Input
Reverse Polarity Protection	Yes	Yes	Yes	N/A
Power Consumption	9 W	16W	16W	24W
<b>Mechanical Characteristics</b>				
Housing	Metal, IP30 Protection	Metal, IP30 Protection	Metal, IP30 Protection	Metal, IP40 Protection
Dimensions	72 x 152 x 105 mm	67 x 142 x 99 mm	67 x 142 x 99 mm	443.7 x 200 x 44 mm
Weight	3.3 lbs.	3.0 lbs.	3.0 lbs.	6.2 lbs.
Mounting	DIN-Rail & Wall Mounting	DIN-Rail & Wall Mounting	DIN-Rail & Wall Mounting	Rack IU
<b>Environmental Limits</b>				
Operating Temperature	STD: -10C to 70C EOT: -40C to 75C	STD: -10C to 65C EOT: -40C to 75C	STD: -10C to 65C 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)
<b>Regulatory Approvals</b>				
Green	RoHS Compliant	RoHS Compliant	RoHS Compliant	RoHS Compliant
Certifications	UL, cUL, CE EN60950-1	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 GIGABIT ETHERNET UNMANAGED SWITCHES



Model Names	LNX-1002G-10G-SFP Series	LNX-1202G-10G-SFP Series
<b>Specifications</b>		
Total Port Count	10-Port	12-Port
<b>Switch Properties</b>		
Jumbo Frame Support	9216 Bytes	9216 Bytes
MAC Table Size	16K	16K
<b>Interface</b>		
Ethernet Port	8*RJ45 Ports w/10/100/1000Tx (PSE: 30W/Port), Auto Negotiation Speed, Full/Half Duplex mode, and Auto MDI/MDI-X Connection	10*RJ45 Ports w/10/100/1000Tx, Auto Negotiation Speed, Full/Half Duplex Mode, and Auto MDI/MDI-X Connection
Fiber Port	2*10G SFP+ Slots	2*10G SFP+ Slots
Wavelength	Refer to SFP+ Modules	Refer to SFP+ Modules
<b>Protection</b>		
EFT Protection	2,000VDC	2,000VDC
ESD Protection	6,000VDC	6,000VDC
<b>Power Requirements</b>		
Input Voltage	12 to 48VDC, Redundant Input	12 to 48VDC, Redundant Input
Overload Current Protection	Present (Slow-Blown Fuse)	Present (Slow-Blown Fuse)
Connection	1 Removable 6-Contact Terminal Block	1 Removable 6-Contact Terminal Block
Reverse Polarity Protection	Yes	Yes
Power Consumption	16W	16W
<b>Mechanical Characteristics</b>		
Housing	Metal, IP30 Protection	Metal, IP30 Protection
Dimensions	54 x 99 x 142 mm	54 x 99 x 142 mm
Weight	3.0 lbs.	3.0 lbs.
Mounting	DIN-Rail, Wall Mounting (Optional)	DIN-Rail, Wall Mounting (Optional)
<b>Environmental Limits</b>		
Operating Temperature	-40° to 60°C	-40° to 60°C
Storage Temperature	-40° to 85°C	-40° to 85°C
Ambient Relative Humidity	5 to 95%, (Non-condensing)	5 to 95%, (Non-condensing)
<b>Regulatory Approvals</b>		
Green	RoHS Compliant	RoHS Compliant
Certifications	FCC, CE	FCC, CE
Warranty	5 Years	5 Years

# INDUSTRIAL 10 GIGABIT PoE ETHERNET UNMANAGED SWITCHES

Industrial Ethernet



Model Names	LNP-1002G-10G-SFP Series	LNP-1002G-10G-SFP-24 Series
<b>Specifications</b>		
Total Port Count	10-Port	10-Port
<b>Switch Properties</b>		
Jumbo Frame Support	9216 Bytes	9216 Bytes
MAC Table Size	16K	16K
<b>Interface</b>		
Ethernet Port	8*RJ45 Ports w/10/100/1000Tx (PSE: 30W/Port), Auto Negotiation Speed, Full/Half Duplex mode, and Auto MDI/MDI-X Connection	8*RJ45 Ports w/10/100/1000Tx (PSE: 30W/Port), Auto Negotiation Speed, Full/Half Duplex mode, and Auto MDI/MDI-X Connection
Fiber Port	2*10G SFP+ Slots	2*10G SFP+ Slots
Wavelength	Refer to SFP+ Modules	Refer to SFP+ Modules
<b>Protection</b>		
EFT Protection	2,000VDC	2,000VDC
ESD Protection	6,000VDC	6,000VDC
<b>Power Requirements</b>		
Input Voltage	48 to 55VDC, Redundant Input	24 to 55VDC, Redundant Input
Overload Current Protection	Present	Present
Connection	1 Removable 6-Contact Terminal Block	1 Removable 6-Contact Terminal Block
Reverse Polarity Protection	Yes	Yes
Power Consumption	16W	16W
PoE Power Budget	240 W	180 W / 24VDC, 240 W / 36-55VDC
Relay Contact	24VDC, 1A Resistive	24VDC, 1A Resistive
<b>Mechanical Characteristics</b>		
Housing	Metal, IP30 Protection	Metal, IP30 Protection
Dimensions	54 x 99 x 142 mm	54 x 99 x 142 mm
Weight	3.0 lbs.	3.0 lbs.
Mounting	DIN-Rail, Wall Mounting (Optional)	DIN-Rail, Wall Mounting (Optional)
<b>Environmental Limits</b>		
Operating Temperature	-40° to 60°C	-40° to 60°C
Storage Temperature	-40° to 85°C	-40° to 85°C
Ambient Relative Humidity	5 to 95%, (Non-condensing)	5 to 95%, (Non-condensing)
<b>Regulatory Approvals</b>		
Green	RoHS Compliant	RoHS Compliant
Certifications	FCC, CE	FCC, CE
Warranty	5 Years	5 Years

# INDUSTRIAL 10/100 FAST ETHERNET MANAGED SWITCHES



Model Names	LMX-0500 Series	LMX-0600 Series	LMX-0602-XX Series
<b>Specifications</b>			
Total Port Count	5-Port	6-Port	6-Port
MAC Table Size	2K	2K	2K
<b>Interface</b>			
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)
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
<b>Network Management &amp; Control</b>			
System Configuration	Web Console, Telnet, CLI	Web Console, Telnet, CLI	Web Console, Telnet, CLI
Network Redundancy	STP, RSTP, MSTP G.8032 ERPS Ring	STP, RSTP, MSTP G.8032 ERPS Ring	STP, RSTP, MSTP G.8032 ERPS Ring
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
<b>Power Requirements</b>			
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
<b>Mechanical Characteristics</b>			
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
<b>Environmental Limits</b>			
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)
<b>Regulatory Approvals</b>			
Green	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
Warranty	5 Years	5 Years	5 Years

# INDUSTRIAL 10/100 FAST ETHERNET MANAGED SWITCHES

Industrial  
Ethernet



Model Names	LMX-0800 Series	LMX-0802-XX Series
<b>Specifications</b>		
Total Port Count	8-Port	8-Port
MAC Table Size	2K	2K
<b>Interface</b>		
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)
Configuration Back Up Port	1*USB 2.0	1*USB 2.0
<b>Network Management &amp; Control</b>		
System Configuration	Web Console, 1*RS232 (RJ45 Port), Telnet, CLI	Web Console, Telnet, CLI Console
Network Redundancy	STP, RSTP, MSTP G.8032 ERPS Ring	STP, RSTP, MSTP G.8032 ERPS Ring
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
<b>Power Requirements</b>		
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
<b>Mechanical Characteristics</b>		
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
<b>Environmental Limits</b>		
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)
<b>Regulatory Approvals</b>		
Green	RoHS Compliant	RoHS Compliant
Certifications	FCC, CE, UL-61010-1, 2-201	UL-61010-1, 2-201
Warranty	5 Years	5 Years



# 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-1202M-SFP Series
<b>Specifications</b>					
Total Port Count	5-Port	6-Port	8-Port	8-Port	10-Port
<b>Technology</b>					
Jumbo Frame Support	9.6Kbytes	9.6Kbytes	9.6Kbytes	9.6Kbytes	9.6Kbytes
MAC Table Size	8K	8K	8K	8K	8K
<b>Interface</b>					
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*10/100/1000Tx 2*10/100 Tx Auto MDI Connection
Fiber Port	1*100/1000 SFP Slot	1*100/1000 SFP Slot	-	4*100/1000 SFP Slots	2*100/1000 SFP Ports
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
<b>Network Management &amp; Control</b>					
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	STP, RSTP, MSTP G.8032 ERPS Ring	STP, RSTP, MSTP G.8032 ERPS Ring	STP, RSTP, MSTP G.8032 ERPS Ring	STP, RSTP, MSTP G.8032 ERPS Ring
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
<b>Power Requirements</b>					
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
<b>Mechanical Characteristics</b>					
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
<b>Environmental Limits</b>					
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)
<b>Regulatory Approvals</b>					
Green	RoHS Compliant	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	FCC, CE, UL-61010-1, 2-201	FCC, CE, UL-61010-1, 2-201
Warranty	5 Years	5 Years	5 Years	5 Years	5 Years

# INDUSTRIAL GIGABIT 10/100/1000 MANAGED ETHERNET SWITCHES

Industrial  
Ethernet



Model Names	LMX-1002G-SFP Series	LMX-1202G-SFP Series	LMX-1204G-SFP Series	LMX-1600G Series
<b>Specifications</b>				
Total Port Count	10-Port	12-Port	12-Port	16-Port
<b>Technology</b>				
Jumbo Frame Support	9.6Kbytes	9.6Kbytes	9.6Kbytes	9.6Kbytes
MAC Table Size	8K	8K	8K	8K
<b>Interface</b>				
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
Fiber Port	2*100/1000 SFP Slots	2*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)
Configuration Back Up Port	1*USB2.0	1*USB2.0	1*USB2.0	1*USB2.0
<b>Network Management &amp; Control</b>				
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	STP, RSTP, MSTP G.8032 ERPS Ring	STP, RSTP, MSTP G.8032 ERPS Ring	STP, RSTP, MSTP G.8032 ERPS Ring
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
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
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
<b>Power Requirements</b>				
Input Voltage	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
Reverse Polarity Protection	Yes	Yes	Yes	Yes
Power Consumption	15W	15W	15W	20W
Relay Alarm Contact	1A @ DC24V	1A @ DC24V	1A @ DC24V	1A @ DC24V
<b>Mechanical Characteristics</b>				
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	67 x 142 x 99 mm
Weight	2.5 lbs.	2.5 lbs.	2.5 lbs.	3.0 lbs.
Mounting	DIN-Rail & Wall Mounting	DIN-Rail & Wall Mounting	DIN-Rail & Wall Mounting	DIN-Rail & Wall Mounting
<b>Environmental Limits</b>				
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)
<b>Regulatory Approvals</b>				
Green	RoHS Compliant	RoHS Compliant	RoHS Compliant	RoHS Compliant
Certifications	FCC, CE, UL-61010-1, 2-201, C1D2	FCC, CE, UL-61010-1, 2-201, C1D2	FCC, CE, UL-61010-1, 2-201, C1D2	FCC, CE, UL-61010-1, 2-201(Pending)
Warranty	5 Years	5 Years	5 Years	5 Years

# INDUSTRIAL GIGABIT 10/100/1000 MANAGED ETHERNET SWITCHES



Model Names	LNX-1802GN Series	LMX-1802G-SFP Series
<b>Specifications</b>		
Total Port Count	18-Port	18-Port
<b>Technology</b>		
Standards	IEEE 802.3, IEEE 802.3u, IEEE 802.3ab, IEEE 802.3z Gigabit Fiber IEEE 802.3x, IEEE 802.3ad, IEEE 802.1d, 02.1w Rapid Spanning Tree, IEEE 802.1p, IEEE 802.1Q, IEEE 802.1x	IEEE 802.3, 802.3u, 802.3ab, 802.3z, 802.3x, 802.3ad, 802.1d, 802.1p, 802.1Q, 802.1ab,
Protocol	CSMA/CD	IGMPv1/v2, GVRP, SNMPv1/v2c/v3, DHCP Server/Client, TFTP, SNMP, SMTP, HTTP, Telnet, Syslog, LLDP, LACP
MAC Table Size	8K	8K
<b>Interface</b>		
Ethernet Port	16*10/100Tx RJ45	16*10/100Tx Auto MDI/MDI-X Connection
Fiber Port	2*10/100/1000T (Combo Ports)	2*100/1000 SFP Slots
Wavelength	Refer to SFP Module	Refer to SFP Module
Serial Console	1*RS232 (RJ45 Port)	1*RS232 (RJ45 Port)
Configuration Back Up Port	TFTP Configuration Backup & Restore	1 * USB2.0
<b>Network Management &amp; Control</b>		
System Configuration	Web Console; Telnet; CLI Console	Web Console; Telnet; CLI Console
Network Redundancy	STP, RSTP, Ring	STP, RSTP, Ring
IEEE 802.1Q VLAN	Port Based, Tag Based, Groups up to 256	Port Based, Tag Based, Groups up to 256
QoS	Port, Tag, IPv4 Type of Service, IPv4 / IPv6 Different Service	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
<b>Power Requirements</b>		
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	Present	Yes
Power Consumption	11.5 W	24W
Relay Alarm Contact	1A @ 24VDC	1A @ DC24V
<b>Mechanical Characteristics</b>		
Housing	Metal, IP30 Protection	Metal, IP30 Protection
Dimensions	72 x 152 x 105 mm (W*H*D)	67 x 142 x 99 mm
Weight	2.2 lbs	2.2 lbs.
Mounting	DIN-Rail & Wall Mounting	DIN-Rail & Wall Mounting
<b>Environmental Limits</b>		
Operating Temperature	STD: -10C to 70C EOT: -40C to 80C	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)
<b>Regulatory Approvals</b>		
Green	RoHS Compliant	RoHS Compliant
Certifications	FCC, CE, UL C1D2	FCC, CE, UL-61010-1, 2-201(Pending)
Warranty	5 Years	5 Years

# INDUSTRIAL GIGABIT 10/100/1000 MANAGED ETHERNET SWITCHES

Industrial  
Ethernet



Model Names	LMX-2004G-SFP Series	LNX-2012GN-SFP Series
<b>Specifications</b>		
Total Port Count	20-Port	20-Port
<b>Technology</b>		
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, 802.3ad, 802.1d STP / IEEE802.1w, 802.1s, 802.1p, 802.1Q, 802.1ab,
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
MAC Table Size	8K	8K
<b>Interface</b>		
Ethernet Port	16*10/100/1000Tx Auto MDI/MDI-X Connection	8*10/100/1000Tx Auto MDI/MDI-X Connection
Fiber Port	4*100/1000 SFP Slots	12*100/1000 SFP Slots
Wavelength	Refer to SFP Module	Refer to SFP Module
Serial Console	1*RS232 (RJ45 Port)	1*RS232 (RJ45 Port)
Configuration Back Up Port	1 * USB2.0	-
<b>Network Management &amp; Control</b>		
System Configuration	Web Console, Telnet, CLI	Web Console; Telnet; CLI Console
Network Redundancy	STP, RSTP, MSTP G.8032 ERPS Ring	STP, RSTP, MSTP; Ring
IEEE 802.1Q VLAN	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
IGMP Snooping/GMRP	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
<b>Power Requirements</b>		
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	24W	10W
Relay Alarm Contact	1A @ DC24V	1A @ DC24V
<b>Mechanical Characteristics</b>		
Housing	Metal, IP30 Protection	Metal, IP30 Protection
Dimensions	67 x 142 x 99 mm	96.4 x 108.5 x 154 mm
Weight	3.0 lbs.	2.7 lbs.
Mounting	DIN-Rail & Wall Mounting	DIN-Rail & Wall Mounting
<b>Environmental Limits</b>		
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)
<b>Regulatory Approvals</b>		
Green	RoHS Compliant	RoHS Compliant
Certifications	FCC, CE, UL-61010-1, 2-201(Pending)	FCC, CE, UL-508
Warranty	5 Years	5 Years

# INDUSTRIAL 10/100 PoE UNMANAGED ETHERNET SWITCHES



Model Names	LNP-0500 Series	LNP-0500-24 Series
<b>Specifications</b>		
Total Port Count	5-Port	5-Port
<b>Switch Properties</b>		
MAC Table Size	2K	2K
<b>Interface</b>		
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
Fiber Port	-	-
Wavelength	-	-
<b>Protection</b>		
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
<b>Power Requirements</b>		
Input Voltage	48 to 55VDC, Redundant Input	12 to 36VDC, Redundant Input
Overload Current Protection	Present	Present
Connection	1 Removable 6-Contact Terminal Block	1 Removable 6-Contact Terminal Block
Reverse Polarity Protection	Yes	Yes
Power Output	Max 30W per PoE Port	Max 30W per PoE Port
Power Consumption	110W @ 48VDC; 130W @ 51 to 55VDC	145W @ 12 to 36VDC
<b>Mechanical Characteristics</b>		
Housing	Metal, IP30 Protection	Metal, IP30 Protection
Dimensions	30 x 142 x 99 mm	46 x 142 x 99 mm
Weight	1.1 lbs.	1.68 lbs.
Mounting	DIN-Rail & Wall Mounting	DIN-Rail & Wall Mounting
<b>Environmental Limits</b>		
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)
<b>Regulatory Approvals</b>		
Green	RoHS Compliant	RoHS Compliant
Certifications	FCC, CE, UL, UL 508, C1D2	FCC, CE, UL, UL 508, C1D2
Warranty	5 Years	5 Years

# INDUSTRIAL 10/100 PoE UNMANAGED ETHERNET SWITCHES

Industrial  
Ethernet



Model Names	LNP-0501-XX Series	LNP-0501-XX-24 Series
<b>Specifications</b>		
Total Port Count	5-Port	5-Port
<b>Switch Properties</b>		
MAC Table Size	2K	2K
<b>Interface</b>		
Ethernet Port	4*10/100Tx (PoE/PoE+) Auto MDI/MDI-X Connection	4*10/100Tx (PoE/PoE+), Auto MDI Connection
Fiber Port	(SC/ST) 1*100Fx (Multi-Mode 2km / Single-Mode 30km)	(SC/ST) 1*100Fx (Multi-Mode 2km / Single-Mode 30km)
Wavelength	1310nm/1310/1550	1310nm/1310/1550
<b>Protection</b>		
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
<b>Power Requirements</b>		
Input Voltage	48 to 55VDC, Redundant Input	12 to 36VDC, Redundant Input
Overload Current Protection	Present	Present
Connection	1 Removable 6-Contact Terminal Block	1 Removable 6-Contact Terminal Block
Reverse Polarity Protection	Yes	Yes
Power Output	Max 30W per PoE Port	Max 30W per PoE Port
Power Consumption	110W@48VDC; 130W@51 to 55VDC	145W @ 12 to 36VDC
<b>Mechanical Characteristics</b>		
Housing	Metal, IP30 Protection	Metal, IP30 Protection
Dimensions	30 x 142 x 99 mm	46 x 142 x 99 mm
Weight	1.1 lbs.	1.68 lbs.
Mounting	DIN-Rail & Wall Mounting	DIN-Rail & Wall Mounting
<b>Environmental Limits</b>		
Operating Temperature	STD: -10C to 70C EOT: -40CC to 75C	STD: -10C to 70 C EOT: -40C to 75 C
Storage Temperature	-40C to 85C	-40C to 85C
Ambient Relative Humidity	5 to 95%, (Non-Condensing)	5 to 95%, (Non-Condensing)
<b>Regulatory Approvals</b>		
Green	RoHS Compliant	RoHS Compliant
Certifications	FCC, CE, UL 508, C1D2	FCC, CE, UL 508, C1D2
Warranty	5 Years	5 Years

# INDUSTRIAL 10/100 PoE UNMANAGED ETHERNET SWITCHES



Model Names	LNP-0602-XX Series	LNP-0800 Series	LNP-0800-24 Series	LNP-0802-XX-24 Series
<b>Specifications</b>				
Total Port Count	6-Port	8-Port	8-Port	8-Port
<b>Switch Properties</b>				
MAC Table Size	2K	2K	2K	2K
<b>Interface</b>				
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
Fiber Port	(SC/ST) 2*100Fx (Multi-Mode 2km / Single-Mode 30km)	-	-	(SC/ST) 2*100Fx (Multi-Mode 2km / Single-Mode 30km)
<b>Protection</b>				
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
<b>Power Requirements</b>				
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 to 55VDC	145 Watts @ 12VDC; 200 Watts @ 24VDC	145 Watts @ 12VDC; 200 Watts @ 24VDC
<b>Mechanical Characteristics</b>				
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
<b>Environmental Limits</b>				
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)
<b>Regulatory Approvals</b>				
Green	RoHS Compliant	RoHS Compliant	RoHS Compliant	RoHS Compliant
Certifications	FCC, CE, UL 508, C1D2	FCC, CE, UL 508, C1D2	FCC, CE, UL 508, C1D2	FCC, CE, UL 508
Warranty	5 Years	5 Years	5 Years	5 Years

# INDUSTRIAL GIGABIT 10/100/1000 PoE UNMANAGED ETHERNET SWITCHES

Industrial Ethernet



Model Names	LNP-0500G Series	LNP-C500G Series	LNP-0500G-24 Series	LNP-0702C-SFP Series	LNP-0702C-SFP-24 Series
<b>Specifications</b>					
Total Port Count	5-Port	5-Port	5-Port	7-Port	7-Port
<b>Switch Properties</b>					
Jumbo Frame Support	9.6Kbytes	10Kbytes	9.6Kbytes	-	-
MAC Table Size	8K	8K	8K	8K	8K
<b>Interface</b>					
Ethernet Port	4*10/100/1000Tx (PoE/PoE+) + 1*10/100/1000Tx Auto MDI Connection	5*10/100/1000BaseTx with 4*PoE+, auto negotiation speed, Full/Half duplex mode, and auto MDI/MDI-X 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
Fiber Port	-	-	-	2*100/1000 SFP Slots	2*100/1000 SFP Slots
Wavelength	-	-	-	Refer to SFP Module	Refer to SFP Module
<b>Protection</b>					
EFT Protection	2,000 VDC for Power Line	2,000 VDC for Power Line	2,000 VDC for Power Line	2,000 VDC for Power Line	2,000 VDC for Power Line
ESD Protection	6,000 VDC for Ethernet	6,000 VDC for Ethernet	6,000 VDC for Ethernet	6,000 VDC for Ethernet	6,000 VDC for Ethernet
<b>Power Requirements</b>					
Input Voltage	48 to 55VDC, Redundant Input	48 to 55 VDC, 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 4-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
Power Consumption	110W @ 48V; 130W @ 51-55V (Full Load)	5.5 Watts for System	145W @ 24V, Full Load W/PoE	110W @ 48V; 130W @ 51-55V (Full Load)	145W @ 24V, Full Load W/PoE
<b>Mechanical Characteristics</b>					
Housing	Metal, IP30 Protection	Metal, IP30 Protection	Metal, IP30 Protection	Metal, IP30 Protection	Metal, IP30 Protection
Dimensions	30 x 142 x 99 mm	30 x 95 x 75 mm (W*H*D)	46 x 142 x 99 mm	30 x 142 x 99 mm	46 x 142 x 99 mm
Weight	1.1 lbs.	Unit: 0.77 lb. / Shipping: 0.99 lb.	1.6 lbs.	1.1 lbs.	1.7 lbs.
Mounting	DIN-Rail & Wall Mounting	DIN-Rail, Wall-Mounting (Optional)	DIN-Rail & Wall Mounting	DIN-Rail & Wall Mounting	DIN-Rail & Wall Mounting
<b>Environmental Limits</b>					
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)
<b>Regulatory Approvals</b>					
Green	RoHS Compliant	RoHS Compliant	RoHS Compliant	RoHS Compliant	RoHS Compliant
Certifications	FCC, CE, UL-61010-1, 61010-2-201, C1D2	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, C1D2	FCC, CE, UL-61010-1, 61010-2-201, C1D2
Warranty	5 Years	5 Years	5 Years	5 Years	5 Years



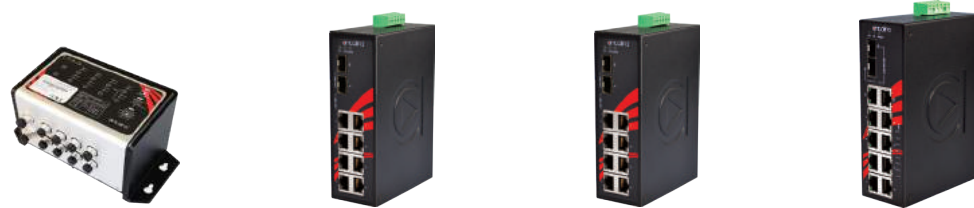
# INDUSTRIAL GIGABIT 10/100/1000 PoE UNMANAGED ETHERNET SWITCHES



Model Names	LNP-0702G-SFP Series	LNP-0702G-SFP-24 Series	LNP-800AGH Series	LNP-800AGH-24 Series
<b>Specifications</b>				
Total Port Count	7-Port	7-Port	8-Port	8-Port
<b>Switch Properties</b>				
Jumbo Frame Support	9.6Kbytes	9.6Kbytes	9.6Kbytes	9.6Kbytes
MAC Table Size	8K	8K	8K	8K
<b>Interface</b>				
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
Fiber Port	2*100/1000 SFP Slots	2*100/1000 SFP Slots	-	-
Wavelength	Refer to SFP Module	Refer to SFP Module	-	-
<b>Protection</b>				
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
<b>Power Requirements</b>				
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
<b>Mechanical Characteristics</b>				
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
<b>Environmental Limits</b>				
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)
<b>Regulatory Approvals</b>				
Green	RoHS Compliant	RoHS Compliant	RoHS Compliant	RoHS Compliant
Certifications	FCC, CE, UL-61010-1, 61010-2-201, C1D2	FCC, CE, UL-61010-1, 61010-2-201, C1D2	FCC, CE, UL, C1D2	FCC, CE, UL, C1D2
Warranty	5 Years	5 Years	5 Years	5 Years

# INDUSTRIAL GIGABIT 10/100/1000 PoE UNMANAGED ETHERNET SWITCHES

Industrial Ethernet



Model Names	LNP-0800G-M12-67-24 Series	LNP-0802C-SFP	LNP-0802C-SFP-24 Series	LNP-1002C-SFP Series
<b>Specifications</b>				
Total Port Count	8-Port	8-Port	10-Port	10-Port
<b>Switch Properties</b>				
Jumbo Frame Support	9.6Kbytes	9.6Kbytes	9.6Kbytes	9.6Kbytes
MAC Table Size	8K	8K	8K	8K
<b>Interface</b>				
Ethernet Port	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
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	-	Refer to SFP Module	Refer to SFP Module	Refer to SFP Module
<b>Protection</b>				
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
<b>Power Requirements</b>				
Input Voltage	12 to 36VDC, Redundant Input	48 to 55VDC, Redundant Input	12 to 36VDC, Redundant Input	48 to 55VDC, Redundant Input
Overload Current Protection	Present	Present	Present	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	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	250 W Max. @ 24VDC	210W @ 48V; 250W @ 51-57V (Full Load)	250W @ 24V, Full Load W/PoE	210W @ 48V; 250W @ 51-57V (Full Load)
<b>Mechanical Characteristics</b>				
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	4.0 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
<b>Environmental Limits</b>				
Operating Temperature	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)
<b>Regulatory Approvals</b>				
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, C1D2	FCC, CE, UL-61010-1, 61010-2-201, C1D2	FCC, CE, UL-61010-1, 61010-2-201, C1D2
Warranty	5 Years	5 Years	5 Years	5 Years

# INDUSTRIAL GIGABIT 10/100/1000 PoE UNMANAGED ETHERNET SWITCHES



Model Names	LNP-1002C-SFP-24 Series	LNP-1002G-SFP Series	LNP-1002G-SFP-24 Series
<b>Specifications</b>			
Total Port Count	10-Port	10-Port	10-Port
<b>Switch Properties</b>			
Jumbo Frame Support	9.6Kbytes	9.6Kbytes	9.6Kbytes
MAC Table Size	8K	8K	8K
<b>Interface</b>			
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
Fiber Port	2*GigE Combo (2*10/100/1000Tx + 2*100/1000 SFP)	2*100/1000 SFP Slots	2*100/1000 SFP Slots
Wavelength	Refer to SFP Module	Refer to SFP Module	Refer to SFP Module
<b>Protection</b>			
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
<b>Power Requirements</b>			
Input Voltage	12 to 36VDC, Redundant Input	48 to 55VDC, Redundant Input	12 to 36VDC, Redundant Input
Overload Current Protection	Present	Present	Present
Connection	1 Removable 6-Contact Terminal Block	1 Removable 6-Contact Terminal Block	1 Removable 6-Contact Terminal Block
Reverse Polarity Protection	Yes	Yes	Yes
Power Output	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
<b>Mechanical Characteristics</b>			
Housing	Metal, IP30 Protection	Metal, IP30 Protection	Metal, IP30 Protection
Dimensions	46 x 142 x 99 mm	46 x 142 x 99 mm	46 x 142 x 99 mm
Weight	1.5 lbs.	1.5 lbs.	1.5 lbs.
Mounting	DIN-Rail & Wall Mounting	DIN-Rail & Wall Mounting	DIN-Rail & Wall Mounting
<b>Environmental Limits</b>			
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
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)
<b>Regulatory Approvals</b>			
Green	RoHS Compliant	RoHS Compliant	RoHS Compliant
Certifications	FCC, CE, UL-61010-1, 61010-2-201, C1D2	FCC, CE, UL-61010-1, 61010-2-201, C1D2	FCC, CE, UL-61010-1, 61010-2-201, C1D2
Warranty	5 Years	5 Years	5 Years

# INDUSTRIAL GIGABIT 10/100/1000 PoE UNMANAGED ETHERNET SWITCHES

Industrial Ethernet



Model Names	LNP-1202G-SFP Series	LNP-1204G-SFP Series	LNP-1600G Series	LNP-1604G-SFP Series
<b>Specifications</b>				
Total Port Count	12-Port	12-Port	16-Port	16-Port
<b>Switch Properties</b>				
Jumbo Frame Support	9.6Kbytes	9.6Kbytes	9216Bytes	9.6Kbytes
MAC Table Size	8K	8K	8K	8K
<b>Interface</b>				
Ethernet Port	8*10/100/1000Tx (PoE/PoE+) + 2*10/100/1000Tx Auto MDI Connection	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
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
<b>Protection</b>				
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
<b>Power Requirements</b>				
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 / 493W @ 48VDC (Full Load)	215W @ 48VDC / 255W @ 55VDC (Full Load)
<b>Mechanical Characteristics</b>				
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	67 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
<b>Environmental Limits</b>				
Operating Temperature	STD: -10C to 70C EOT: -40C to 75C	STD: -10C to 70C EOT: -40C to 75C	STD: -10C to 65C 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)
<b>Regulatory Approvals</b>				
Green	RoHS Compliant	RoHS Compliant	RoHS Compliant	RoHS Compliant
Certifications	FCC, CE, UL-61010-1, 61010-2-201, C1D2	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

# INDUSTRIAL GIGABIT 10/100/1000 PoE UNMANAGED ETHERNET SWITCHES



Model Names	LNP-1802G-SFP Series	LNP-2004G-SFP Series	LNP-2602G-SFP Series
<b>Specifications</b>			
Total Port Count	18-Port	20-Port	26-Port
<b>Switch Properties</b>			
Jumbo Frame Support	9216Bytes	9216Bytes	9.6Kbytes
MAC Table Size	8K	8K	8K
<b>Interface</b>			
Ethernet Port	16*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
Fiber Port	2*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
<b>Protection</b>			
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
<b>Power Requirements</b>			
Input Voltage	48 to 55VDC, Redundant Input	48 to 55VDC, Redundant Input	48 to 55VDC, Redundant Input
Overload Current Protection	Present	Present	Present
Connection	1 Removable 6-Contact Terminal Block	1 Removable 6-Contact Terminal Block	1 Removable 6-Contact Terminal Block
Reverse Polarity Protection	Yes	Yes	Yes
Power Output	Max 30W per PoE Port	Max 30W per PoE Port	Max 30W per PoE Port
Power Consumption	215W @ 48VDC / 495W @ 48VDC (Full Load)	215W @ 48VDC / 496W @ 48VDC (Full Load)	720W
<b>Mechanical Characteristics</b>			
Housing	Metal, IP30 Protection	Metal, IP30 Protection	Metal, IP40 Protection
Dimensions	67 x 142 x 99 mm	67 x 142 x 99 mm	440 x 200 x 44 mm
Weight	3.0 lbs.	3.0 lbs.	6.0 lbs.
Mounting	DIN-Rail & Wall Mounting	DIN-Rail & Wall Mounting	Rack
<b>Environmental Limits</b>			
Operating Temperature	STD: -10C to 65C EOT: -40C to 75C	STD: -10C to 65C 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)
<b>Regulatory Approvals</b>			
Green	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)
Warranty	5 Years	5 Years	5 Years

# INDUSTRIAL 10/100 PoE MANAGED ETHERNET SWITCHES

Industrial  
Ethernet



Model Names	LMP-0501-XX Series	LMP-0501-XX-24 Series	LMP-0600 Series	LMP-0600-24 Series
<b>Specifications</b>				
Total Port Count	5-Port	5-Port	6-Port	6-Port
<b>Interface</b>				
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
Fiber Port	(SC/ST) 1*100Fx (Multi-Mode 2km, Single-Mode 30km)	(SC/ST) 1*100Fx (Multi-Mode 2km, Single-Mode 30km)	-	-
Serial Console	1*RS232 (RJ45 Port)	1*RS232 (RJ45 Port)	1*RS232 (RJ45 Port)	1*RS232 (RJ45 Port)
Configuration Backup	USB	USB	USB	USB
<b>Network Management &amp; Control</b>				
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
<b>Power Requirements</b>				
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
<b>Mechanical Characteristics</b>				
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
<b>Environmental Limits</b>				
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)
<b>Regulatory Approvals</b>				
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

# INDUSTRIAL 10/100 PoE MANAGED ETHERNET SWITCHES



Model Names	LMP-0602-XX Series	LMP-0602-XX-24 Series
<b>Specifications</b>		
Total Port Count	6-Port	6-Port
<b>Interface</b>		
Ethernet Port	4*10/100Tx (PoE/PoE+), Auto MDI Connection	4*10/100Tx (PoE/PoE+), Auto MDI Connection
Fiber Port	(SC/ST) 2*100Fx (Multi-Mode 2km, Single-Mode 30km)	(SC/ST) 2*100Fx (Multi-Mode 2km, Single-Mode 30km)
Serial Console	1*RS232 (RJ45 Port)	1*RS232 (RJ45 Port)
Configuration Backup	USB	USB
<b>Network Management &amp; Control</b>		
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
<b>Power Requirements</b>		
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
<b>Mechanical Characteristics</b>		
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
<b>Environmental Limits</b>		
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)
<b>Regulatory Approvals</b>		
Green	RoHS Compliant	RoHS Compliant
Certifications	FCC, CE, UL-61010-1, -2-201	FCC, CE, UL-61010-1, -2-201
Warranty	5 Years	5 Years

# INDUSTRIAL GIGABIT 10/100/1000 PoE MANAGED ETHERNET SWITCHES

Industrial  
Ethernet



Model Names	LMP-0601G-SFP Series	LMP-0601G-SFP-24 Series	LMP-0800G Series	LMP-0800G-24 Series
<b>Specifications</b>				
Total Port Count	6-Port	6-Port	8-Port	8-Port
<b>Interface</b>				
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
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
<b>Network Management &amp; Control</b>				
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
<b>Power Requirements</b>				
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
<b>Mechanical Characteristics</b>				
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
<b>Environmental Limits</b>				
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)
<b>Regulatory Approvals</b>				
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	FCC, CE, UL-61010-1, 2-201
Warranty	5 Years	5 Years	5 Years	5 Years



# INDUSTRIAL GIGABIT 10/100/1000 PoE MANAGED ETHERNET SWITCHES



Model Names	LMP-0804G Series	LMP-1202M-SFP Series	LMP-1202M-SFP-24 Series	LMP-1002G-SFP Series
<b>Specifications</b>				
Total Port Count	8-Port	10-Port	10-Port	10-Port
<b>Interface</b>				
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+) 2*10/100 Tx Auto MDI Connection
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
<b>Network Management &amp; Control</b>				
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
<b>Power Requirements</b>				
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
<b>Mechanical Characteristics</b>				
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
<b>Environmental Limits</b>				
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)
<b>Regulatory Approvals</b>				
Green	RoHS Compliant	RoHS Compliant	RoHS Compliant	RoHS Compliant
Certifications	FCC, CE, UL-61010-1, 2-201	FCC, CE, UL-61010-1, 2-201, C1D2	FCC, CE, UL-61010-1, 2-201, C1D2	FCC, CE, UL-61010-1, 2-201, C1D2
Warranty	5 Years	5 Years	5 Years	5 Years

# INDUSTRIAL GIGABIT 10/100/1000 PoE MANAGED ETHERNET SWITCHES

Industrial  
Ethernet



Model Names	LMP-1002G-SFP-24 Series	LMP-1002G-10G-SFP Series	LMP-1002G-10G-SFP-24 Series	LMP-1202G-SFP Series
<b>Specifications</b>				
Total Port Count	10-Port	10-Port	10-Port	12-Port
<b>Interface</b>				
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
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
<b>Network Management &amp; Control</b>				
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
<b>Power Requirements</b>				
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
<b>Mechanical Characteristics</b>				
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
<b>Environmental Limits</b>				
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)
<b>Regulatory Approvals</b>				
Green	RoHS Compliant	RoHS Compliant	RoHS Compliant	RoHS Compliant
Certifications	FCC, CE, UL-61010-1, 2-201, C1D2	FCC, CE, UL-61010-1, 2-201(Pending)	FCC, CE, UL-61010-1, 2-201(Pending)	FCC, CE, UL-61010-1, 2-201, C1D2
Warranty	5 Years	5 Years	5 Years	5 Years

# INDUSTRIAL GIGABIT 10/100/1000 PoE MANAGED ETHERNET SWITCHES



Model Names	LMP-1204G-SFP Series	LMP-1600G Series	LMP-1802G-SFP Series
<b>Specifications</b>			
Total Port Count	12-Port	16-Port	18-Port
<b>Interface</b>			
Ethernet Port	8*10/100/1000Tx (PoE/PoE+) Auto MDI Connection	16*10/100/1000Tx (PoE/PoE+), Auto MDI Connection	16*10/100/1000Tx (PoE/PoE+), Auto MDI Connection
Fiber Port	4*100/1000 SFP Slots	-	2*100/1000 SFP Slots
Wavelength	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
<b>Network Management &amp; Control</b>			
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 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
<b>Power Requirements</b>			
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	1 Removable 6-Contact Terminal Block
Reverse Polarity Protection	Yes	Yes	Yes
PoE Power Output	Max 30W per PoE Port	Max 30W per PoE Port	Max 30W per PoE Port
Power Consumption	215W @24VDC / 255W @ 48 to 55VDC	490W	495W
Relay Alarm Contact	1A @ DC24V	1A @ DC24V	1A @ DC24V
<b>Mechanical Characteristics</b>			
Housing	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
Weight	2.5 lbs.	5.0 lbs.	5.0 lbs.
Mounting	DIN-Rail & Wall Mounting	DIN-Rail & Wall Mounting	DIN-Rail & Wall Mounting
<b>Environmental Limits</b>			
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)
<b>Regulatory Approvals</b>			
Green	RoHS Compliant	RoHS Compliant	RoHS Compliant
Certifications	FCC, CE, UL-61010-1, 2-201, C1D2	FCC, CE, UL-61010-1, 2-201(Pending)	FCC, CE, UL-61010-1, 2-201(Pending)
Warranty	5 Years	5 Years	5 Years

# INDUSTRIAL GIGANIT 10/100/1000 PoE MANAGED ETHERNET SWITCHES

Industrial  
Ethernet



Model Names	LMP-2004G-SFP Series	LNP-2804GN-SFP-T
<b>Specifications</b>		
Total Port Count	20-Port	26-Port
<b>Interface</b>		
Ethernet Port	16*10/100/1000Tx (PoE/PoE+) Auto MDI Connection	24*10/100/1000Tx (PoE/PoE+), Auto MDI/MDIX Connection
Fiber Port	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
Serial Console	1*RS232 (RJ45 Port)	1*RS232 (RJ45 Port)
Configuration Backup	USB	USB
<b>Network Management &amp; Control</b>		
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 Proprietary Ring Redundancy Recovery <20ms
IEEE 802.1Q VLAN	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
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 Ping Alert	Yes	Yes
System Warning Email Alert	By Exception Through Email	By Exception Through Email
<b>Power Requirements</b>		
Input Voltage	48 to 55VDC, Redundant Input	48 to 55VDC, Redundant Input
Connection	1 Removable 6-Contact Terminal Block	6-Contact Terminal Block
Reverse Polarity Protection	Yes	Yes
PoE Power Output	Max 30W per PoE Port	Max 30W per PoE Port
Power Consumption	495W	735W
Relay Alarm Contact	1A @ DC24V	1A @ DC24V
<b>Mechanical Characteristics</b>		
Housing	Metal, IP30 Protection	Metal, IP30 Protection
Dimensions	55 x 142 x 99 mm	440 x 280 x 44 mm
Weight	5.0 lbs.	10.0 lbs.
Mounting	DIN-Rail & Wall Mounting	DIN-Rail & Wall Mounting
<b>Environmental Limits</b>		
Operating Temperature	STD: -10C to 70C EOT: -40C to 75C	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)
<b>Regulatory Approvals</b>		
Green	RoHS Compliant	RoHS Compliant
Certifications	FCC, CE, UL-61010-1, 2-201(Pending)	FCC, CE, UL(Pending)
Warranty	5 Years	5 Years

# ORDERING INFORMATION INDUSTRIAL ETHERNET SWITCHES

Name	Description
<b>Industrial 10/100 Unmanaged Ethernet Switches</b>	
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-CC	Compact 5-Port Industrial Unmangaed Ethernet Switch, w/5*10/100TX with Conformal Coating
LNX-C500-T	Compact 5-Port Industrial Unmanaged Ethernet Switch w/5*10/100TX; EOT: -40C to 75C
LNX-C500-T-CC	Compact 5-Port Industrial Unmangaed Ethernet Switch, w/5*10/100TX; EOT: -40 to 75C with Conformal Coating
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

## 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; EOT: -40C to 75C
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	16-Port Industrial Gigabit Unmanaged Ethernet Switch, w/16*10/100/1000Tx
LNX-1600G-T	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	18-Port Industrial Unmangaed Ethernet Switch, w/16*10/100Tx + 2 *GigE Combo Ports
LNX-1802G-T	18-Port Industrial Unmangaed Ethernet Switch, w/16*10/100Tx + 2 *GigE Combo Ports; EOT: -40-80C
LNX-1802G-SFP	18-Port Industrial Gigabit Unmanaged Ethernet Switch, w/16*10/100/1000Tx + 2*100/1000 SFP Slots
LNX-1802G-SFP-T	18-Port Industrial Gigabit Unmanaged Ethernet Switch, w/16*10/100/1000Tx + 2*100/1000 SFP Slots; EOT: -40C to 75C
LNX-2004G-SFP	20-Port Industrial Gigabit Unmanaged Ethernet Switch, w/16*10/100/1000Tx + 4*100/1000 SFP Slots
LNX-2004G-SFP-T	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 75C
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
LNX-1802GN	18-Port Industrial Managed Ethernet Switch, w/16*10/100Tx + 2*GigE Combo Ports
LNX-1802GN-T	18-Port Industrial Managed Ethernet Switch, w/16*10/100Tx + 2*GigE Combo Ports; EOT: -40~80C
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
LNX-2012GN-SFP	20-Port Industrial Gigabit Managed Ethernet Switch, w/8*10/100/1000Tx and, + 12*100/1000 SFP Slot
LNX2012GN-SFP-T	20-Port Industrial Gigabit Managed Ethernet Switch, w/8*10/100/1000Tx and, + 12*100/1000 SFP Slot; EOT: -40~75C

**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-ST-M-24	5-Port Industrial PoE+ Unmanaged Ethernet Switch, w/4*10/100Tx (30W/Port) + 1*100Fx Multi-mode 2Km, ST Connectors, 12VDC-36VDC
LNP-0501-ST-M-24-T	5-Port Industrial PoE+ Unmanaged Ethernet Switch, w/4*10/100Tx (30W/Port) + 1*100Fx ST connector, Multi-mode 2Km, 12VDC-36VDC; EOT: -40~75C
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-ST-S3-24	5-Port Industrial PoE+ Unmanaged Ethernet Switch, w/4*10/100Tx (30W/Port) + 1*100Fx ST Connector, Single-mode 30Km, 12VDC-36VDC
LNP-0501-ST-S3-24-T	5-Port Industrial PoE+ Unmanaged Ethernet Switch, w/4*10/100Tx (30W/Port) + 1*100Fx ST Connector, Single-mode 30Km, 12VDC-36VDC; EOT: -40~75C
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



# ORDERING INFORMATION INDUSTRIAL ETHERNET SWITCHES

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
LNP-0802C-SFP	8-Port Industrial PoE+ Unmanaged Ethernet Switch, w/6*10/100Tx (30W/Port) + 2*Gigabit Combo Ports (2*10/100/100 RJ45, 2*100/1000 SFP)
LNP-0802C-SFP-24	8-Port Industrial PoE+ Unmanaged Ethernet Switch, w/6*10/100Tx (30W/Port) + 2*Gigabit Combo Ports (2*10/100/100 RJ45, 2*100/1000 SFP); 12-36VDC
LNP-0802C-SFP-24-T	8-Port Industrial PoE+ Unmanaged Ethernet Switch, w/6*10/100Tx (30W/Port) + 2*Gigabit Combo Ports (2*10/100/100 RJ45, 2*100/1000 SFP); 12-36VDC, EOT: -40 TO 75C
LNP-0802C-SFP-T	8-Port Industrial PoE+ Unmanaged Ethernet Switch, w/6*10/100Tx (30W/Port) + 2*Gigabit Combo Ports (2*10/100/1000 RJ45, 2*100/1000 SFP); EOT: -40 TO 75C
LNP-0602-ST-M	6-Port Industrial PoE+ Unmanaged Ethernet Switch, w/4*10/100Tx (30W/Port), 2*100Fx Multi-Mode 2km, ST Connector
LNP-0602-ST-M-T	6-Port Industrial PoE+ Unmanaged Ethernet Switch, w/4*10/100Tx (30W/Port), 2*100Fx Multi-Mode 2km, ST Connector; EOT: -40C to 75C
LNP-0602-S3	6-Port Industrial PoE+ Unmanaged Ethernet Switch, w/4*10/100Tx (30W/Port), 2*100Fx Single-Mode 30km, SC Connector
LNP-0602-S3-T	6-Port Industrial PoE+ Unmanaged Ethernet Switch, w/4*10/100Tx (30W/Port), 2*100Fx Single-Mode 30km; EOT: -40C to 75C, SC Connector
LNP-0602-ST-S3	6-Port Industrial PoE+ Unmanaged Ethernet Switch, w/4*10/100Tx (30W/Port), 2*100Fx Single-Mode 30km, ST Connector
LNP-0602-ST-S3-T	6-Port Industrial PoE+ Unmanaged Ethernet Switch, w/4*10/100Tx (30W/Port), 2*100Fx Single-Mode 30km, ST Connector; EOT: -40C to 75C
LNP-0800	8-Port Industrial PoE+ Unmanaged Ethernet Switch, w/8*10/100Tx (30W/Port)
LNP-0800-T	8-Port Industrial PoE+ Unmanaged Ethernet Switch, w/8*10/100Tx (30W/Port); EOT: -40C to 75C
LNP-0800-24	8-Port Industrial PoE+ Unmanaged Ethernet Switch, w/8*10/100Tx (30W/Port), 12VDC-36VDC
LNP-0800-24-T	8-Port Industrial PoE+ Unmanaged Ethernet Switch, w/8*10/100Tx (30W/Port), 12VDC-36VDC; EOT: -40C to 75C
LNP-0802-M-24	8-Port Industrial PoE+ Unmanaged Ethernet Switch, w/6*10/100Tx (30W/Port) + 2*100Fx Multi-Mode 2km, 12VDC-36VDC, SC Connector
LNP-0802-M-24-T	8-Port Industrial PoE+ Unmanaged Ethernet Switch, w/6*10/100Tx (30W/Port) + 2*100Fx Multi-Mode 2km, 12VDC-36VDC; EOT: -40C to 75C, SC Connector
LNP-0802-ST-M-24	8-Port Industrial PoE+ Unmanaged Ethernet Switch, w/6*10/100Tx (30W/Port) + 2*100Fx Multi-Mode 2km, 12VDC-36VDC, ST Connector

## Industrial Gigabit 10/100/1000 PoE Unmanaged Ethernet Switches

LNP-0500G	5-Port Industrial Gigabit PoE+ Unmanaged Ethernet Switch, w/4*10/100/1000Tx (30W/Port)+ 1*10/100/1000Tx
LNP-0500G-T	5-Port Industrial Gigabit PoE+ Unmanaged Ethernet Switch, w/4*10/100/1000Tx (30W/Port)+ 1*10/100/1000Tx; EOT: -40C to 75C
LNP-0500G-24	5-Port Industrial Gigabit PoE+ Unmanaged Ethernet Switch, w/4*10/100/1000Tx (30W/Port)+ 1*10/100/1000Tx; 12 to 36VDC
LNP-0500G-24-T	5-Port Industrial Gigabit PoE+ Unmanaged Ethernet Switch, w/4*10/100/1000Tx (30W/Port)+ 1*10/100/1000Tx; 12 to 36VDC, EOT: -40C to 75C
LNP-C500G	Compact 5-Port Industrial Gigabit PoE+ Unmanaged Ethernet Switch, w/4*10/100/1000Tx (30W/Port) + 1*10/100/1000Tx
LNP-C500G-T	Compact 5-Port Industrial Gigabit PoE+ Unmanaged Ethernet Switch, w/4*10/100/1000Tx (30W/Port) + 1*10/100/1000Tx; EOT: -40 to 75C
LNP-0702C-SFP	7-Port Industrial PoE+ Unmanaged Ethernet Switch, w/4*10/100Tx (30W/Port), 1*10/100Tx + 2*GigE Combo Ports
LNP-0702C-SFP-T	7-Port Industrial PoE+ Unmanaged Ethernet Switch, w/4*10/100Tx (30W/Port), 1*10/100Tx + 2*GigE Combo Ports; EOT: -40C to 75C
LNP-0702C-SFP-24	7-Port Industrial PoE+ Unmanaged Ethernet Switch, w/4*10/100Tx (30W/Port), 1*10/100Tx + 2*GigE Combo Ports; 12 to 36VDC
LNP-0702C-SFP-24-T	7-Port Industrial PoE+ Unmanaged Ethernet Switch, w/4*10/100Tx (30W/Port), 1*10/100Tx + 2*GigE Combo Ports; 12 to 36VDC; EOT: -40C to 75C
LNP-0702G-SFP	7-Port Industrial PoE+ Unmanaged Ethernet Switch, w/4*10/100/100Tx (30W/Port), 1*10/100/1000Tx, + 1*100/1000 SFP Slot
LNP-0702G-SFP-T	7-Port Industrial PoE+ Unmanaged Ethernet Switch, w/4*10/100/100Tx (30W/Port), 1*10/100/1000Tx, + 1*100/1000 SFP Slot; EOT: -40C to 75C
LNP-0702G-SFP-24	7-Port Industrial PoE+ Unmanaged Ethernet Switch, w/4*10/100/100Tx (30W/Port), 1*10/100/1000Tx, + 1*100/1000 SFP Slot, 12 to 36VDC
LNP-0702G-SFP-24-T	7-Port Industrial PoE+ Unmanaged Ethernet Switch, w/4*10/100/100Tx (30W/Port), 1*10/100/1000Tx, + 1*100/1000 SFP Slot, 12 to 36VDC; EOT: -40C to 75C
LNP-0800G-M12-67-24	8-Port Industrial M12 IP67 Waterproof Gigabit PoE+ Ethernet Switch, w/8*10/100/1000Tx (30W/Port) M12 Connector (X-Coded); -10C to 60C
LNP-800AGH	8-Port Industrial PoE+ Unmanaged Ethernet Switch, w/8*10/100/1000Tx (30W/Port)
LNP-800AGH-T	8-Port Industrial PoE+ Unmanaged Ethernet Switch, w/8*10/100/1000Tx (30W/Port); EOT: -40C to 75C
LNP-800AGH-24	8-Port Industrial PoE+ Unmanaged Ethernet Switch, w/8*10/100/1000Tx (30W/Port), 12 to 36VDC
LNP-800AGH-24-T	8-Port Industrial PoE+ Unmanaged Ethernet Switch, w/8*10/100/1000Tx (30W/Port), 12 to 36VDC; EOT: -40C to 75C
LNP-800AGH-24-T-CC	8-Port Industrial PoE+ Unmanaged Ethernet Switch, w/8*10/100/1000Tx (30W/Port), 12-36VDC; EOT: -40C-75C with Conformal Coating
LNP-1002C-SFP	10-Port Industrial PoE+ Unmanaged Ethernet Switch, w/8*10/100Tx (30W/Port) + 2*GigE Combo Ports
LNP-1002C-SFP-T	10-Port Industrial PoE+ Unmanaged Ethernet Switch, w/8*10/100Tx (30W/Port) + 2*GigE Combo Ports; EOT: -40C to 75C
LNP-1002C-SFP-24	10-Port Industrial PoE+ Unmanaged Ethernet Switch, w/8*10/100Tx (30W/Port) + 2*GigE Combo Ports; 12 to 36VDC
LNP-1002C-SFP-24-T	10-Port Industrial PoE+ Unmanaged Ethernet Switch, w/8*10/100Tx (30W/Port) + 2*GigE Combo Ports; 12 to 36VDC; EOT: -40C to 75C
LNP-1002G-SFP	10-Port Industrial PoE+ Unmanaged Ethernet Switch, w/8*10/100/1000Tx (30W/Port) + 2*100/1000 SFP Slots
LNP-1002G-SFP-T	10-Port Industrial PoE+ Unmanaged Ethernet Switch, w/ 8*10/100/1000Tx (30W/Port) + 2*100/1000 SFP Slots; EOT: -40C to 75C
LNP-1002G-SFP-T-CC	10-Port Industrial PoE+ Unmanaged Ethernet Switch, w/ 8*10/100/1000Tx (30W/Port) + 2*100/1000 SFP Slots; EOT: -40C-75C, 48-55VDC with Conformal Coating
LNP-1002G-SFP-24	10-Port Industrial PoE+ Unmanaged Ethernet Switch, w/8*10/100/1000Tx (30W/Port) + 2*100/1000 SFP Slots, 12 to 36VDC
LNP-1002G-SFP-24-T	10-Port Industrial PoE+ Unmanaged Ethernet Switch, w/8*10/100/1000Tx (30W/Port) + 2*100/1000 SFP Slots; 12 to 36VDC, EOT: -40C to 75C
LNP-1202G-SFP	12-Port Industrial Gigabit PoE+ Unmanaged Ethernet Switch, w/10*10/100/1000Tx (30W/Port) + 2*100/1000 SFP Slots
LNP-1202G-SFP-T	12-Port Industrial Gigabit PoE+ Unmanaged Ethernet Switch, w/10*10/100/1000Tx (30W/Port) + 2*100/1000 SFP Slots; EOT: -40C to 75C
LNP-1204G-SFP	12-Port Industrial Gigabit PoE+ Unmanaged Ethernet Switch, w/8*10/100/1000Tx (30W/Port) + 4*100/1000 SFP Slots
LNP-1204G-SFP-T	12-Port Industrial Gigabit PoE+ Unmanaged Ethernet Switch, w/8*10/100/1000Tx (30W/Port) + 4*100/1000 SFP Slots; EOT: -40C to 75C
LNP-1600G	16-Port Industrial Gigabit PoE+ Unmanaged Ethernet Switch, w/16*10/100/1000Tx (30W/Port)
LNP-1600G-T	16-Port Industrial Gigabit PoE+ Unmanaged Ethernet Switch, w/16*10/100/1000Tx (30W/Port); EOT: -40C to 75C
LNP-1604G-SFP	16-Port Industrial Gigabit PoE+ Unmanaged Ethernet Switch, w/12*10/100/1000Tx (30W/Port) + 4*100/1000 SFP Slots
LNP-1604G-SFP-T	16-Port Industrial Gigabit PoE+ Unmanaged Ethernet Switch, w/12*10/100/1000Tx (30W/Port) + 4*100/1000 SFP Slots; EOT: -40C to 75C
LNP-1802G-SFP	18-Port Industrial Gigabit PoE+ Unmanaged Ethernet Switch, w/16*10/100/1000Tx (30W/Port) + 2*100/1000 SFP Slots
LNP-1802G-SFP-T	18-Port Industrial Gigabit PoE+ Unmanaged Ethernet Switch, w/16*10/100/1000Tx (30W/Port) + 2*100/1000 SFP Slots; EOT: -40C to 75C
LNP-2004G-SFP	20-Port Industrial PoE+ Gigabit Unmanaged Ethernet Switch, w/16*10/100/1000Tx (30W/Port) + 4*100/1000 SFP Slots
LNP-2004G-SFP-T	20-Port Industrial PoE+ Gigabit Unmanaged Ethernet Switch, w/16*10/100/1000Tx (30W/Port) + 4*100/1000 SFP Slots; EOT: -40C-75C
LNP-2602G-SFP	26-Port Industrial PoE+ Unmanaged Ethernet Switch, w/24*10/100/1000Tx (30W/Port) + 2*GigE Combo (2*10/100/1000Tx + 2*100/1000 SFP Slots)
LNP-2602G-SFP-T	26-Port Industrial PoE+ Unmanaged Ethernet Switch, w/24*10/100/1000Tx (30W/Port) + 2*GigE Combo (2*10/100/1000Tx + 2*100/1000 SFP Slots); EOT: -40C to 75C

## Industrial 10/100 PoE Managed Ethernet Switches

LMP-0501-M	5-Port Industrial PoE+ Managed Ethernet Switch, w/4*10/100Tx (30W/Port), and 1*100Fx Multi-Mode 2km, SC Connector
LMP-0501-M-T	5-Port Industrial PoE+ Managed Ethernet Switch, w/4*10/100Tx (30W/Port), and 1*100Fx Multi-Mode 2km, EOT: -40C to 75C, SC Connector

LMP-0501-ST-M	5-Port Industrial PoE+ Managed Ethernet Switch, w/4*10/100Tx (30W/Port), and 1*100F Multi-Mode 2km, ST Connector
LMP-0501-ST-M-T	5-Port Industrial PoE+ Managed Ethernet Switch, w/4*10/100Tx (30W/Port), and 1*100F Multi-Mode 2km, ST Connector, EOT: -40C to 75C
LMP-0501-M-24	5-Port Industrial PoE+ Managed Ethernet Switch, w/4*10/100Tx (30W/Port), and 1*100F Multi-Mode 2km, 12 to 36VDC, SC Connector
LMP-0501-M-24-T	5-Port Industrial PoE+ Managed Ethernet Switch, w/4*10/100Tx (30W/Port), and 1*100F Multi-Mode 2km, 12 to 36VDC; EOT: -40C to 75C, SC Connector
LMP-0501-ST-M-24	5-Port Industrial PoE+ Managed Ethernet Switch, w/4*10/100Tx (30W/Port), and 1*100F Multi-Mode 2km, ST Connector, 12 to 36VDC
LMP-0501-ST-M-24-T	5-Port Industrial PoE+ Managed Ethernet Switch, w/4*10/100Tx (30W/Port), and 1*100F Multi-Mode 2km, ST Connector, 12 to 36VDC; EOT: -40C to 75C
LMP-0501-S3	5-Port Industrial PoE+ Managed Ethernet Switch, w/4*10/100Tx (30W/Port), and 1*100F Single-Mode 30km
LMP-0501-S3-T	5-Port Industrial PoE+ Managed Ethernet Switch, w/4*10/100Tx (30W/Port), and 1*100F 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*100F 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*100F 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*100F 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*100F 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*100F 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*100F 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*100F SC Connector, Multi-Mode 2km
LMP-0602-M-T	6-Port Industrial PoE+ Managed Ethernet Switch, with 4*10/100Tx (30W/Port), and 2*100F 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*100F 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*100F 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*100F 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*100F 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*100F 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*100F 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*100F SC Connector, Single-Mode 30km
LMP-0602-S3-T	6-Port Industrial PoE+ Managed Ethernet Switch, with 4*10/100Tx (30W/Port), and 2*100F 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*100F 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*100F 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*100F 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*100F 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*100F 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*100F Single-Mode 30km, ST Connector, 12 to 36VDC; EOT: -40C to 75C
LMP-602N-ST-MM-T	Industrial 6-port Managed PoE Ethernet Switch with 4x 10/100Tx P.S.E. and 2x 100F, MM 2KM (*Support High Power - 25W per Port) with ST Connectors, EOT (-40C ~ 70C)

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

LMP-0601G-SFP	6-Ports Industrial PoE+ Managed Ethernet Switch, w/4*10/100/1000Tx (30W/port) + 1*10/100/1000Tx + 1*100/1000 SFP Slot
LMP-0601G-SFP-T	6-Ports Industrial PoE+ Managed Ethernet Switch, w/4*10/100/1000Tx (30W/port) + 1*10/100/1000Tx + 1*100/1000 SFP Slot; EOT: -40C to 75C
LMP-0601G-SFP-24	6-Ports Industrial PoE+ Managed Ethernet Switch, w/4*10/100/1000Tx (30W/port) + 1*10/100/1000Tx + 1*100/1000 SFP Slot; 12 to 36VDC
LMP-0601G-SFP-24-T	6-Ports Industrial PoE+ Managed Ethernet Switch, w/4*10/100/1000Tx (30W/port) + 1*10/100/1000Tx + 1*100/1000 SFP Slot; 12 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-SFP	8-Port Industrial Gigabit PoE+ Managed Ethernet Switch, w/4*10/100/1000Tx (30W/port), + 4*100/1000 SFP Slots
LMP-0804G-SFP-T	8-Port Industrial PoE+ Gigabit Managed Ethernet Switch, w/4*10/100/1000Tx Ports + 4*100/1000F SFP Fiber Slots, EoT -40~75C.
LMP-0804G-T-SFP-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-1600G	16-Port Industrial Gigabit PoE+ Managed Ethernet Switch, w/14*10/100/1000Tx (30W/port)
LMP-1600G-T	16-Port Industrial Gigabit PoE+ Managed Ethernet Switch, w/14*10/100/1000Tx (30W/port)
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-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	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





PRODUCT SELECTION GUIDE  
**MEDIA  
CONVERTERS**

# INDUSTRIAL GIGABIT PoE/PoE+ INJECTORS/SPLITTERS



Model Names	LNP-201AG-T	INJ-0200G-60-24-T	LNP-101AG-T
<b>Specifications</b>			
Total Port Count	1-Port (PoE/PoE+ Injector)	1-Port (PoE/PoE++ Injector)	1-Port (PoE Splitter)
<b>Switch Properties</b>			
Jumbo Frame Support	-	12.2K	-
<b>Interface</b>			
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)
PoE Pin	V+, V+, V-, V-, for pin 1, 2, 3, 6 (Endspan, MDI-X Alternative A)	All Pairs	Input Pin: 1,2,4,5 (V+V+), 3,6,7,8 (V-V-)
<b>Protection</b>			
EFT Protection	3,000 VDC for Power Line	2,000 VDC for Power Line	3,000 VDC for Power Line
ESD Protection	6,000 VDC for Ethernet	6,000 VDC for Ethernet	6,000 VDC for Ethernet
<b>Power Requirements</b>			
Input Voltage	24 to 48VDC, Redundant Input	12 to 48VDC 30W 24 to 48VDC 60W	44 to 57 VDC
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 Output	30W	60W / 30W	12.95W
Power Consumption	33.36 W @ 24VDC	5 W @ 24VDC	17.76W @ 48VDC
<b>Mechanical Characteristics</b>			
Housing	Metal, IP30 Protection	Metal, IP67 Protection	Metal, IP30 Protection
Dimensions	30 x 140 x 95 mm	26 x 95 x 75 mm	30 x 140 x 95 mm
Weight	1.0 lbs.	1.0 lbs.	1.0 lbs.
Mounting	DIN-Rail & Wall Mounting	DIN-Rail & Wall Mounting	DIN-Rail & Wall Mounting
<b>Environmental Limits</b>			
Operating Temperature	EOT: -40C to 75C	EOT: -40C to 75C	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)
<b>Regulatory Approvals</b>			
Green	RoHS Compliant	RoHS Compliant	RoHS Compliant
Certifications	FCC, CE, UL 508	FCC, CE, UL61010-1, 61010-2-201 (Pending)	FCC, CE, UL, cUL
Warranty	5 Years	5 Years	5 Years

# INDUSTRIAL GIGABIT 10/100/1000 (PoE/PoE+) ETHERNET MEDIA CONVERTERS



Model Names	IMC-C1000-SFP Series	IMP-C1000-SFP Series
<b>Interface</b>		
Processing Type	Store and Forward	Store and Forward
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
Wavelength	Refer to SFP Module	Refer to SFP Module
<b>Properties</b>		
Jumbo Frame Support	9K	9K
Dip Switch	Link Lost Forwarding (LLF) & Link Fault Pass Through (LFP)	Link Lost Forwarding (LLF) & Link Fault Pass Through (LFP)
<b>Protection</b>		
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
<b>Power Requirements</b>		
Input Voltage	12 to 48VDC, Redundant Input	48 to 55VDC, Redundant Input
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)
<b>Mechanical Characteristics</b>		
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
<b>Environmental Limits</b>		
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)
<b>Regulatory Approvals</b>		
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
Certifications	FCC, CE, UL 61010-2-210(Pending), C1D2 (Pending)	FCC, CE, UL 61010-2-210(Pending), C1D2 (Pending)
Warranty	5 Years	5 Years

# INDUSTRIAL 10/100 ETHERNET MEDIA CONVERTERS



Model Names	IMC-100A Series	IMP-100A Series
<b>Interface</b>		
Processing Type	Store and Forward	Store and Forward
Ethernet Port	1*10/100Tx	1*10/100Tx (PSE: 30w)
Fiber Port	1*100Fx	1*100Fx
<b>Power Requirements</b>		
Input Voltage	12 to 48VDC, Redundant Input	48VDC, Redundant Input
Power Connection	Removable 6-Contact Terminal Block	Removable 6-Contact Terminal Block
Reverse Polarity Protection	Present	Present
Overload Current Protection	Present	Present
Power Consumption	2.74 W	3.3 W (Without PoE) 16.4 W (Full Load with PoE)
<b>Mechanical Characteristics</b>		
Housing	Metal, IP30 Rated	Metal, IP30 Rated
Dimensions	30 x 140 x 95 mm	30 x 140 x 95 mm
Weight	0.95 lb	0.95 lb
Mounting	DIN-Rail, Wall-Mount	DIN-Rail, Wall-Mount
<b>Environmental Limits</b>		
Operating Temperature	STD: -10C to 70C EOT: -40C to 80C	STD: -10C to 70C EOT: -40C to 80C
Storage Temperature	-40C to 85C	-40C to 85C
Ambient Relative Humidity	5 to 95%, (Non-Condensing)	5 to 95%, (Non-Condensing)
<b>Regulatory Approvals</b>		
Green	RoHS Compliant	RoHS Compliant
CertificationS	FCC, CE, UL Class 1 Division 2	FCC, CE, cUL
Warranty	5 Years	5 Years

# INDUSTRIAL 10/100 ETHERNET MEDIA CONVERTERS



Model Names	IMC-C100-XX Series	IMC-C1000-XX Series
<b>Technology</b>		
Processing Type	Store and Forward	Store and Forward
Protocol	CSMA/CD	CSMA/CD
<b>Interface</b>		
Ethernet Port	1*10/100Tx	1*10/100/1000Tx
Fiber Port	1*100Fx	1*1000Fx
Wavelength	Depends on Fixed Fiber Modules	Depends on Fixed Fiber Modules
<b>Power Requirements</b>		
Input Voltage	12 to 48VDC, Redundant Inputs	12 to 48VDC, Redundant Inputs
Overload Current Protection	Present	Present
Connection	Removable 6-Contact Terminal Block	Removable 4-Contact Terminal Block
Reverse Polarity Protection	Present	Present
Power Consumption	2 W for System	2.2 W for System
<b>Mechanical Characteristics</b>		
Housing	Metal, IP30 Protection	Metal, IP30 Protection
Dimensions	26 x 95 x 75 mm	26 x 95 x 75 mm
Weight	0.551 lb.	0.595 lb.
Mounting	DIN-Rail, Wall Mounting	DIN-Rail, Wall Mounting
<b>Environmental Limits</b>		
Operating Temperature	STD: -10C to 70C EOT: -40C to 80C	STD: -10C to 70C EOT: -40C to 80C
Storage Temperature	-40C to 85C	-40C to 85C
Ambient Relative Humidity	5 to 95%, (Non-Condensing)	5 to 95%, (Non-Condensing)
<b>Regulatory Approvals</b>		
Green	RoHS Compliant	RoHS Compliant
Certifications	FCC, CE	FCC, CE
Warranty	5 Years	5 Years

# 19" RACKMOUNT MEDIA CONVERTER CHASSIS



Model Names	FCU-RACK16S	FCU-RACK16-AC/DC Series
<b>Hardware Specification</b>		
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
<b>Power Requirements</b>		
Output Voltage	DC 5V, 1.6A	DC 5V
Power Consumption	9.5W	9.5W
<b>Mechanical Characteristics</b>		
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
<b>Environmental Limits</b>		
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)
<b>Associated Media Converters</b>		
Media Converters	FCU-100 Series, FCU-3002A Series	FCU-100 Series, FCU-3002A Series
<b>Regulatory Approvals</b>		
Emission / Safety	FCC Class A, CE, RoHS	FCC Class A, CE, RoHS
Warranty	5 Years	5 Years

# 10/100 UNMANAGED ETHERNET MEDIA CONVERTERS



Model Names	FCU-100 Series	FCU-100 WDM Series	FCU-1802P Series	FCU-1802P WDM Series
Chassis Mountable	Yes	Yes	No	No
<b>Technology</b>				
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
<b>Interface</b>				
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
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)
<b>Properties</b>				
Dip Switch	Forced Speed Selectable	Forced Speed Selectable	-	-
<b>Power Requirements</b>				
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)
<b>Mechanical Characteristics</b>				
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
<b>Environmental Limits</b>				
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)
<b>Rack Mountable</b>				
Related Chassis	FCU-RACK16S, FCU-RACK16-AC/DC Series	FCU-RACK16S, FCU-RACK16-AC/DC Series	-	-
<b>Regulatory Approvals</b>				
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 UNMANAGED ETHERNET MEDIA CONVERTERS



Model Names	FCU-2805SFP Series	FCU-2805P-SFP Series	FCU-3002A Series	FCU-3002A WDM Series
Chassis Mountable	Yes	No	Yes	Yes
<b>Technology</b>				
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
<b>Interface</b>				
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)
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)
<b>Properties</b>				
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)
<b>Power Requirements</b>				
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
<b>Mechanical Characteristics</b>				
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
<b>Environmental Limits</b>				
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)
<b>Rack Mountable</b>				
Related Chassis	FCU-RACK16S, FCU-RACK16-AC/DC Series	-	FCU-RACK16S, FCU-RACK16-AC/DC Series	FCU-RACK16S, FCU-RACK16-AC/DC Series
<b>Regulatory Approvals</b>				
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



# 10/100 UNMANAGED ETHERNET MEDIA CONVERTERS



Model Names	FCU-3002A-SFP Series	FCU-3102SFP-SFP-DR	FCU-5002-SFP+
Chassis Mountable	Yes	Yes	Yes
<b>Technology</b>			
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
<b>Interface</b>			
RJ45 Ports	1*10/100/1000Tx	-	-
Fiber Port	1*1000 SFP Slot	2*100/1000 SFP Slots	2*10G SFP+ Slots
Wavelength	Refer to SFP Module	Refer to SFP Module	Refer to SFP+ Module
<b>Properties</b>			
Jumbo Frame Support	9K	9K	9K
Dip Switch	Link Fault Pass Through (LFP)	Link Fault Pass Through (LFP)	Link Fault Pass Through (LFP)
<b>Power Requirements</b>			
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
<b>Mechanical Characteristics</b>			
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
<b>Environmental Limits</b>			
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)
<b>Rack Mountable</b>			
Related Chassis	FCU-RACK16S, FCU-RACK16-AC/DC Series	FCU-RACK16S, FCU-RACK16-AC/DC Series	FCU-RACK16S, FCU-RACK16-AC/DC Series
<b>Regulatory Approvals</b>			
Green	RoHS Compliant	RoHS Compliant	RoHS Compliant
Certifications	FCC, CE	FCC, CE	FCC, CE
Warranty	5 Years	5 Years	5 Years

# 10/100/1000 MANAGED ETHERNET MEDIA CONVERTERS



Model Names	FCN-3112 Series	FCU-6001-SFP+
<b>Switch Properties</b>		
Processing Type	Store and Forward	Store and Forward
MAC Table Size	1K	9K
<b>Interface</b>		
Ethernet Port	1*10/100/1000Tx	1*10G/5G/1GBase-T RJ45 Auto MDI/MDI-X, Auto-negotiation
Fiber Port	1*Fixed Fiber 1000mbps	1*10GBase-X R SFP+ interface
Wavelength	FCN-3112SC: 850nm FCN-3112SC-S1/S2: 1310nm FCN-3112WA: TX-1310nm; RX-1550nm FCN-3112WB: TX-1550nm; RX-1310nm	Depends on SFP+ module
<b>Power Requirements</b>		
Input Voltage	External Power Supply: DC 5V, 1.5A 50, 60 Hz	5V DC, 2A Max
Connection	Barrel	Barrel Adapter
Power Consumption	3.4 Watts	3.75 Watts
<b>Mechanical Characteristics</b>		
Housing	Metal, IP30 Rated	Metal, IP30 Protection
Dimensions	71 x 94 x 26 mm	94 x 70 x 26 mm (W*H*D)
Weight	1.3 lbs	0.397 lb
<b>Environmental Limits</b>		
Operating Temperature	0C to 50C	0C to 50C
Storage Temperature	-20C to 60C	-10C to 70C
Ambient Relative Humidity	5 to 90%, (Non-Condensing)	5 to 95%, (non-condensing)
<b>Regulatory Approvals</b>		
Green	RoHS Compliant	RoHS Compliant
Certifications	FCC Class A, CE	FCC Part 15 Class A, CE
Warranty	5 Years	2 Years

# 10/100/1000 MANAGED ETHERNET MEDIA CONVERTERS



Model Names		EVC-3101
<b>Switch Properties</b>		
Switch Architecture	Store and Forward	
Jumbo Frame Support	9K Bytes	
Address Table	2K	
<b>Interface</b>		
RJ45 Ports	1*10/100/1000Tx RJ45 auto MDI/MDI-X port	
Telco Port	1*VDSL2 RJ11 Female Phone Jack Twisted-Pair Telephone Wires (AWG24 or Better) up to 1.4km	
Wavelength	Additional Splitter for POTS Connection	
<b>Properties</b>		
Jumbo Frame Support	9K	
Dip Switch	Link Fault Pass Through (LFP)	
<b>Power Requirements</b>		
Input Voltage	5VDC, 2A	
Connection	AC Power Adapter	
Power Consumption	3.5 Watts/11.93 BTU @ AC 110V (Full Loading) 3.6 Watts/12.28 BTU @ AC 220V (Full Loading)	
<b>Mechanical Characteristics</b>		
Housing	Metal	
Dimensions	97 x 70 x 26 mm	
Weight	Unit: 0.88 lb. / Shipping: 1.0 lb.	
<b>Environmental Limits</b>		
Operating Temperature	0C to 50C	
Storage Temperature	-20C to 60C	
Ambient Relative Humidity	10 to 90%, (Non-Condensing)	
<b>Regulatory Approvals</b>		
Certifications	FCC Part 15 Class A, CE	
Warranty	2 Years	

# ORDERING INFORMATION ETHERNET MEDIA CONVERTERS

Name	Description
<b>Industrial Gigabit PoE/PoE+ Injectors/Splitters</b>	
LNP-101AG-T	Industrial PoE Splitter for 10/100/1000T, EOT (-40°C~ 80°C)
LNP-201AG-T	Industrial IEEE 802.3at Gigabit PoE/PoE+ Injector, EOT (-40°C~ 75°C)
INJ-0200G-60-24-T	Industrial Gigabit (60W) PoE / PoE+ Injector with 1*10/100/1000Tx (Data and PSE) 1*10/100/1000Tx (Data and EOT: -40°C to 75°C)
<b>IMC Series - Industrial 10/100 Ethernet Media Converters</b>	
IMC-100A-M	10/100TX To 100FX Industrial Media Converter, Multi-Mode 2KM, SC Connector
IMC-100A-M-T	10/100TX To 100FX Harden Media Converter, Multi-Mode 2KM, -40°C~ 80°C
IMC-100A-S3	10/100TX To 100FX Industrial Media Converter, Single Mode 30KM, SC Connector
IMC-100A-S3-T	10/100TX To 100FX Harden Media Converter, Single Mode 30KM, -40°C~ 80°C
IMC-100A-S5	10/100TX To 100FX Industrial Media Converter, Single Mode 50Km, SC Connector
IMC-100A-ST-M	10/100TX To 100FX Industrial Media Converter, Multi-Mode 2KM, ST Connector
IMC-100A-ST-M-T	10/100TX To 100FX Harden Media Converter, Multi-Mode 2Km, ST Connector, -40°C~ 80°C
IMC-100A-ST-S3	10/100TX To 100FX Industrial Media Converter, SM 30KM, ST Connector
IMC-100A-ST-S3-T	10/100TX To 100FX Industrial Media Converter, SM 30km, ST Connector, -40°C~ 80°C
IMC-100A-WA-S2	10/100TX To 100FX Industrial Media Converter, Single Fiber (WDM-A), Single-Mode 20KM, TX1310nm - RX1550nm
IMC-100A-WB-S2	10/100TX To 100FX Industrial Media Converter, Single Fiber (WDM-B), Single-Mode 20KM, TX1550nm - RX1310nm
IMC-C100-M	Compact 10/100TX To 100FX Industrial Media Converter, Multi-Mode 2KM, SC Connector
IMC-C100-M-T	Compact 10/100TX To 100FX Industrial Media Converter, Multi-Mode 2KM, SC Connector; EOT: -40°C~ 80°C
IMC-C100-S3	Compact 10/100TX To 100FX Industrial Media Converter, Single Mode 30KM, SC Connector
IMC-C100-S3-T	Compact 10/100TX To 100FX Industrial Media Converter, Single Mode 30KM, SC Connector; EOT: -40°C~ 80°C
IMC-C100-ST-M	Compact 10/100TX To 100FX Industrial Media Converter, Multi-Mode 2KM, ST Connector
IMC-C100-ST-M-T	Compact 10/100TX To 100FX Industrial Media Converter, Multi-Mode 2KM, ST Connector; EOT: -40°C~ 80°C
IMC-C100-ST-S3	Compact 10/100TX To 100FX Industrial Media Converter, Single-Mode 30KM, ST Connector
IMC-C100-ST-S3-T	Compact 10/100TX To 100FX Industrial Media Converter, Single-Mode 30KM, ST Connector; EOT: -40°C~ 80°C
<b>IMC Series - Industrial 10/100/1000 Ethernet Media Converters</b>	
IMC-C1000-M	Compact Industrial Gigabit Ethernet Media Converter, with 10/100/1000TX to SC MM 1000Mbps Fixed Fiber
IMC-C1000-M-T	Compact Industrial Gigabit Ethernet Media Converter, with 10/100/1000TX to SC MM 1000Mbps Fixed Fiber; EOT: -40°C~ 80°C
IMC-C1000-S1	Compact Industrial Gigabit Ethernet Media Converter, with 10/100/1000TX to SC SM 10km 1000Mbps Fixed Fiber
IMC-C1000-S1-T	Compact Industrial Gigabit Ethernet Media Converter, with 10/100/1000TX to SC SM 10km 1000Mbps Fixed Fiber; EOT: -40°C~ 80°C
IMC-C1000-S4	Compact Industrial Gigabit Ethernet Media Converter, with 10/100/1000TX to SC SM 40km 1000Mbps Fixed Fiber
IMC-C1000-S4-T	Compact Industrial Gigabit Ethernet Media Converter, with 10/100/1000TX to SC SM 40km 1000Mbps Fixed Fiber; EOT: -40°C~ 80°C
IMC-C1000-S6	Compact Industrial Gigabit Ethernet Media Converter, with 10/100/1000TX to SC SM 60km 1000Mbps Fixed Fiber
IMC-C1000-S6-T	Compact Industrial Gigabit Ethernet Media Converter, with 10/100/1000TX to SC SM 60km 1000Mbps Fixed Fiber; EOT: -40°C~ 80°C
IMC-C1000-ST-M	Compact Industrial Gigabit Ethernet Media Converter, with 10/100/1000TX to ST MM 1000Mbps Fixed Fiber
IMC-C1000-ST-M-T	Compact Industrial Gigabit Ethernet Media Converter, with 10/100/1000TX to ST MM 1000Mbps Fixed Fiber; EOT: -40°C~ 80°C
IMC-C1000-ST-S1	Compact Industrial Gigabit Ethernet Media Converter, with 10/100/1000TX to ST SM 10km 1000Mbps Fixed Fiber
IMC-C1000-ST-S1-T	Compact Industrial Gigabit Ethernet Media Converter, with 10/100/1000TX to ST SM 10km 1000Mbps Fixed Fiber; EOT: -40°C~ 80°C
IMC-C1000-WA-S1	Compact Industrial Gigabit Ethernet Media Converter, with 10/100/1000TX to SC Single Fiber (WDM-A), Single-Mode 10km, TX1310nm - RX1550nm
IMC-C1000-WA-S1-T	Compact Industrial Gigabit Ethernet Media Converter, with 10/100/1000TX to SC Single Fiber (WDM-A), Single-Mode 10km, TX1310nm - RX1550nm; EOT: -40°C~ 80°C
IMC-C1000-WB-S1	Compact Industrial Gigabit Ethernet Media Converter, with 10/100/1000TX to SC Single Fiber (WDM-B), Single-Mode 10km, TX1550nm - RX1310nm
IMC-C1000-WB-S1-T	Compact Industrial Gigabit Ethernet Media Converter, with 10/100/1000TX to SC Single Fiber (WDM-B), Single-Mode 10km, TX1550nm - RX1310nm; EOT: -40°C~ 80°C
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: -40°C~ 75°C
IMC-C100-ST-S3-T	Compact 10/100TX To 100FX Industrial Media Converter, Single-Mode 30KM, ST Connector; EOT: -40°C~ 80°C
<b>IMP Series - Industrial 10/100/1000 PoE Ethernet Media Converters</b>	
IMP-100A-M	10/100TX To 100FX Industrial PoE Media Converter, Multi-Mode 2KM SC
IMP-100A-M-T	10/100TX To 100FX Industrial PoE Media Converter, Multi-Mode 2KM SC , EOT -40°C~ 80°C
IMP-100A-S3	10/100TX To 100FX Industrial PoE Media Converter, SM 30KM SC
IMP-100A-S3-T	10/100TX To 100FX Industrial PoE Media Converter, SM 30KM SC , EOT -40°C~ 80°C
IMP-100A-WA-S2	10/100TX To 100FX Industrial PoE Media Converter, Single Fiber (WDM-B) SM 20KM SC, TX1310nm - RX1510nm
IMP-100A-WB-S2	10/100TX To 100FX Industrial PoE Media Converter, Single Fiber (WDM-B), Single-Mode 20km, TX1550nm - RX1310nm
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: -40°C~ 75°C

# ORDERING INFORMATION ETHERNET MEDIA CONVERTERS

## 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-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-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 Series - Gigabit 10/100/1000 Ethernet Media Converters

FCU-28025C	10/100/1000TX To 1000SX Media Converter, Multi-Mode 550M, SC Connector
FCU-28025C-S10	10/100/1000TX To 1000LX Media Converter, Single-Mode 10KM, SC Connector
FCU-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
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
FCN-31125C	10/100/1000TX To 1000SX SNMP Managed Media Converter, Multi-Mode 550M, SC Connector
FCN-31125C-S1	10/100/1000TX To 1000LX SNMP Managed Media Converter, SM 10KM, SC Connector
FCN-31125C-S2	10/100/1000TX To 1000LX SNMP Managed Media Converter, SM 20KM, SC Connector
FCN-3112WA-M	10/100/1000TX To 1000LX Single Fiber (WDM-A) SNMP Managed Media Converter, MultiMode 550M, TX1310nm - RX1550nm
FCN-3112WA-S1	10/100/1000TX To 1000LX Single Fiber (WDM-A) SNMP Managed Media Converter, SM 10KM, TX1310nm - RX1550nm
FCN-3112WA-S2	10/100/1000TX To 1000LX Single Fiber (WDM-A) SNMP Managed Media Converter, SM 20KM, TX1310nm - RX1550nm
FCN-3112WB-M	10/100/1000TX To 1000LX Single Fiber (WDM-B) SNMP Managed Media Converter, MultiMode 550M, TX1550nm - RX1310nm
FCN-3112WB-S1	10/100/1000TX To 1000LX Single Fiber (WDM-B) SNMP Managed Media Converter, SM 10KM, TX1550nm - RX1310nm
FCN-3112WB-S2	10/100/1000TX To 1000LX Single Fiber (WDM-B) SNMP Managed Media Converter, SM 20KM, TX1550nm - RX1310nm
FCU-5002-SFP+	10GBase-R SFP+ to 10GBase-R SFP+ Media Converter
FCU-6001-SFP+	10G/5G/2.5G/1G/100Tx to 10G Base-X SFP+ Media Converter
EVC-3101	Ethernet over VDSL2 Converter - 1*10/100/1000Tx + 1*VDSL2/RJ11, 1*Phone - 30a

## 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

## Rack Chassis Accessories

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/CLIENT/BRIDGE/REPEATER



Model Names	ARS-7234-AC-T	ARY-7234-AC-PD	ARX-7234-AC-PD-T
<b>Specifications</b>			
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
<b>Interface</b>			
Antenna	2 External SMA Antennas (Supports MIMO)	2 External N-Type Antennas (Supports MIMO)	2 External N-Type Antennas (Supports MIMO)
<b>Technology</b>			
Protocol	IP, TCP, UDP, ARP, BOOTP, ICMP, HTTP, HTTPS, DNS Proxy, NAPT, SNTP, RADIUS, Dynamic DNS, SMTP, SNMP	IP, TCP, UDP, ARP, BOOTP, ICMP, HTTP, HTTPS, DNS Proxy, NAPT, SNTP, RADIUS, Dynamic DNS, SMTP, SNMP	IP, TCP, UDP, ARP, BOOTP, ICMP, HTTP, HTTPS, DNS Proxy, NAPT, SNTP, RADIUS, Dynamic DNS, SMTP, SNMP
IEEE Standard	802.11, 802.3, 802.3u, 802.3ab	802.11, 802.3, 802.3u, 802.3ab, 802.3af/at PoE	802.11, 802.3, 802.3u, 802.3ab, 802.3af/at PoE
WLAN Operation Mode	AP / Client / Bridge / Repeater	AP / Client / Bridge / Repeater	AP / Client / Bridge / Repeater
Encryption Security	WEP, WPA, WPA2, TKIP, AES	WEP, WPA, WPA2, TKIP, AES	WEP, WPA, WPA2, TKIP, AES
<b>Frequency Range</b>			
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)
<b>Power Requirements</b>			
Power Input	9 to 24VDC in 2-Pin Terminal Block	PoE 48 to 56VDC	PoE 48 to 56VDC
Power Consumption	6W	18.9W	18.9W
<b>Mechanical Characteristics</b>			
Housing	Metal, IP30 Protection	Plastic, IP67 Protection	Metal, IP67 Protection
Dimensions	46 x 162 x 110 mm	230 x 58 x 230 mm	269 x 81 x 239 mm
Weight	1.622 lbs.	2.689 lbs.	5.82 lbs.
Mounting	DIN-Rail & Wall Mounting	Pole Mounting	Pole & Wall Mounting
<b>Environmental Limits</b>			
Operating Temperature	-40C to 70C	0C to 50C	-40c to 70C
Storage Temperature	-40C to 80C	-40C to 50C	-40C to 80C
Ambient Relative Humidity	5 to 95%, (Non-Condensing)	5 to 95%, (Non-Condensing)	5 to 95%, (Non-Condensing)
<b>Reliability</b>			
Warranty	5 Years	5 Years	5 Years



Model Names	AMS-2111 Series	AMS-7131-AC Series
<b>Specifications</b>		
Type	IEEE 802.11b/g/n 2.4GHz	IEEE 802.11a/b/g/n/ac
<b>Interface</b>		
Antenna	1 External SMA Antenna	1 External SMA Antenna
<b>Technology</b>		
Protocol	IP, TCP, UDP, ARP, BOOTP, ICMP, HTTP, HTTPS, DNS Proxy, NTP, RADIUS, Dynamic DNS, SNMP	IP, TCP, UDP, ARP, BOOTP, ICMP, HTTP, HTTPS, DNS Proxy, NTP, RADIUS, Dynamic DNS, SNMP
IEEE Standard	IEEE 802.11 b/g/n IEEE 802.3 10Base-T Ethernet IEEE 802.3u 100Base-TX Fast Ethernet	IEEE 802.11 b/g/n/ac IEEE 802.3 10Base-T Ethernet IEEE 802.3u 100Base-TX Fast Ethernet
WLAN Operation Mode	AP/Client/Bridge/Repeater	AP/Client/Bridge/Router/Repeater
Encryption Security	WPA, WPA2, TKIP, AES	WPA, WPA2, WPA3, WEP, TKIP, AES
<b>Frequency Range</b>		
IEEE 802.11b/g	US/TW: 2.412G~2.462GHz EU/AU/NZ: 2.412G~2.472GHz	2.412G~2.472GHz 4.920G~5.825GHz
<b>Power Requirements</b>		
Power Input	9 to 48VDC	12 to 48VDC
Power Consumption	2 W	8 W
<b>Mechanical Characteristics</b>		
Housing	Metal, IP30 Protection	Metal, IP30 Protection
Dimensions	26 x 95 x 75mm (W*H*D)	26 x 95 x 75mm (W*H*D)
Weight	0.60 lb.	0.60 lb.
Mounting	DIN-Rail & Wall mounting	DIN-Rail & Wall mounting
<b>Environmental Limits</b>		
Operating Temperature	STD: 0C to 60c EOT: -40C to 75c	STD: -10C to 60c EOT: -35C to 70c
Storage Temperature	-40C to 90c	-40C to 90c
Ambient Relative Humidity	10 to 90%, (non-condensing)	5 to 95%, (non-condensing)
<b>Reliability</b>		
Warranty	5 Years	5 Years



# ORDERING INFORMATION INDUSTRIAL WIRELESS

Name	Description
<b>APN Series - Industrial Wireless AP/Bridge/Client</b>	
ARS-7234-AC-T	Industrial IEEE 802.11a/b/g/n/ac Dual Radio Wireless AP/Client/Bridge/Repeater; EOT: -40°C to 70°C
ARX-7234-AC-PD-T	Industrial Outdoor IP67 Metal Housing IEEE 802.11a/b/g/n/ac Dual Radio Wireless AP/Client/Bridge/Repeater with PoE PD; EOT: -40°C to 70°C
ARY-7234-AC-PD	Industrial Outdoor IP67 Plastic Housing IEEE 802.11a/b/g/n/ac Dual Radio Wireless AP/Client/Bridge/Repeater with PoE PD
AMS-7131-AC	Industrial 802.11a/b/g/n/ac WiFi Access Point/Client/Bridge/Repeater
AMS-7131-AC-T	Industrial 802.11a/b/g/n/ac WiFi Access Point/Client/Bridge/Repeater; EOT: -40°C - 85°C
AMS-2111	Industrial IEEE 802.11b/g/n Wireless (Wi-Fi) LAN Access Point/Bridge/Client/Repeater
AMS-2111-T	Industrial IEEE 802.11b/g/n Wireless (Wi-Fi) LAN Access Point/Bridge/Client/Repeater; EOT: -40°C to 85°C

<b>Ordering Information - Industrial Wireless Accessories</b>	
Name	Description
<b>Antennas</b>	
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
<b>Antenna Cables</b>	
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
<b>Power Supplies</b>	
PA-48-48-US	PoE Injector, Input 100-240VAC/2A, Output 48VDC/1A



PRODUCT SELECTION GUIDE

**INDUSTRIAL  
SERIAL  
CONNECTIVITY**

# SERIAL-TO-ETHERNET DEVICE SERVERS



Model Names	STE-501C	STE-502C	STE-601C	STE-6104C-T
<b>Specifications</b>				
Type	1-Port	2-Port	1-Port	4-Port
<b>Ethernet Interface</b>				
Ports	1*10/100Tx, Auto MDI/MDIX	1*10/100Tx, Auto MDI/MDIX	1*10/100Tx, Auto MDI/MDIX	2*10/100Tx, Auto MDI/MDIX
<b>Serial Interface</b>				
Ports	1*RS232/422/485 (DB9 Male)	2*RS232/422/485 (DB9 Male)	1*RS-232/422/423/485	4*RS232/422/485 (DB9 Male)
Baud Rate	1200bps to 230.4 Kbps	1200bps to 230.4 Kbps	9,600 bps	300bps to 921.6Kbps
Serial Console Port	-	-	1*RJ45 Port	1*RJ45 Port
<b>Software</b>				
Operation Mode	Virtual COM, TCP/UDP, Tunnel	Virtual COM, TCP/UDP, Tunnel	Virtual COM, TCP/UDP, Tunnel	Virtual COM, TCP/UDP, Tunnel
Configuration Options	Web Console, Telnet, Windows Utility Software	Web Console, Telnet, Windows Utility Software	Web Console, Telnet, Windows Utility Software	Web Console, Telnet, Windows Utility Software
OS Support	MS Windows, Linux	MS Windows, Linux	MS Windows, Linux	MS Windows, Linux
<b>Power Characteristics</b>				
Power Input	9-30 VDC (Terminal Block); 5V (DC Jack)	9-30 VDC (Terminal Block); 5V (DC Jack)	9~30VDC	9 to 48VDC (Terminal Block)
Power Consumption (Max)	3W	3W	3 Watts	5.85W
<b>Hardware Characteristics</b>				
Housing	Metal, IP40 Protection	Metal, IP40 Protection	Metal, IP50 Protection	Metal, IP50 Protection
Dimensions	65 x 80 x 28 mm	53.4x145.7x119.9 mm	45 x 91 x 76 mm	53.4 x 145.7 x 119.9 mm
Weight	0.4 lbs.	0.5 lbs.	0.50 lb.	2.05 lbs.
Installation	DIN-Rail or Wall Mounting	DIN-Rail or Wall Mounting	DIN-Rail or Wall Mounting	DIN-Rail or Wall Mounting
<b>Environmental Limits</b>				
Operating Temperature	0C to 60C	0C to 60C	-20°C to 70°C	-40C to 80C
Storage Temperature	-20C to 80C	-20C to 80C	-20°C to 85°C	-40C to 85C
Humidity	20 to 90%, (Non-Condensing)	20 to 90%, (Non-Condensing)	20% to 90%, (Non-Condensing)	5 to 90%, (Non-Condensing)
<b>Regulatory Approvals</b>				
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	CE, FCC
RoHS	Yes	Yes	RoHS Compliant	Yes
Warranty	5 Years	5 Years	5 Years	5 Years

# SERIAL-TO-FIELDBUS GATEWAYS



<b>Model Names</b>	<b>STM-501C</b>
<b>Specifications</b>	
Type	Modbus ASCII/RTU/485 to ModbusTCP
<b>Ethernet Interface</b>	
Ports	1*10/100Mbps RJ45, Auto MDI/MDIX
<b>Serial Interface</b>	
Ports	1*RS232/422/485 DB9 Male
Baud Rate	110 bps to 230.4 Kbps
Serial Console Port	-
Isolation Protection	-
<b>Software</b>	
Modbus Parameters	Up to 1 TCP Master, 8 TCP Slaves
Configuration Options	Serial Console, Telnet, Web and Windows-Based Utility
<b>Power Characteristics</b>	
Power Input	7 to 30VDC (2-Pin Terminal Block or Power Jack)
Power Consumption (Max)	3.5W
<b>Hardware Characteristics</b>	
Housing	Metal, IP30 Protection
Dimensions	85 x 115 x 23 mm
Weight	0.4 lbs.
Installation	DIN-Rail or Wall Mounting
<b>Environmental Limits</b>	
Operating Temperature	0C to 50C
Storage Temperature	-20C to 60C
Ambient Relative Humidity	0 to 90%, (Non-Condensing)
<b>Regulatory Approvals</b>	
Certifications	CE, FCC
RoHS	Yes
Warranty	5 Years

# INDUSTRIAL SERIAL-TO-FIELDBUS GATEWAYS



Model Names	STM-601C Series	STM-602C Series	STM-604C Series
<b>Specifications</b>			
Type	1-Port	2-Port	4-Port
<b>Ethernet Interface</b>			
Ports	2*10/100Tx, Auto MDI/MDIX	2*10/100Tx, Auto MDI/MDIX	2*10/100Tx, Auto MDI/MDIX
Compliance	IEEE 802.3, 802.3u	IEEE 802.3, 802.3u	IEEE 802.3, 802.3u
Network Protocol	CSMA/CD	TCP/IP,UDP,HTTP,SNMP,ARP, Telnet, ICMP, BOOTP, DHCP	TCP/IP, UDP, HTTP, SNMP, ARP, Telnet, ICMP, BOOTP, DHCP
<b>Serial Interface</b>			
Ports	1*RS232/422/485 (DB9 Male)	2*RS232/422/485 (DB9 Male)	4*RS232/422/485 (DB9 Male)
Baud Rate	50bps to 921.6 Kbps	50bps to 921.6 Kbps	50bps to 921.6 Kbps
<b>Power Characteristics</b>			
Power Input	12-48 VDC (Terminal Block)	12-48 VDC (Terminal Block)	12-48 VDC (Terminal Block)
Power Consumption (Max)	3W	3W	5.85W
<b>Hardware Characteristics</b>			
Housing	Metal	Metal	Metal
Dimensions	37 x 140 x 95 mm	37 x 140 x 95 mm	55 x 140 x 95 mm
Weight	1.04 lbs.	1.06 lbs.	1.22 lbs.
Installation	DIN-Rail or Wall Mounting	DIN-Rail or Wall Mounting	DIN-Rail or Wall Mounting
<b>Environmental Limits</b>			
Operating Temperature	-10C to 60C	-10C to 60C	-10C to 60C
Storage Temperature	-20C to 80C	-40C to 85C	-40C to 85C
Humidity	5 to 95%, (Non-Condensing)	5 to 95%, (Non-Condensing)	5 to 95%, (Non-Condensing)
<b>Regulatory Approvals</b>			
Certifications	CE, FCC, UL, C1D2 (Pending)	CE, FCC,UL	CE, FCC,UL
RoHS	Yes	Yes	Yes
Warranty	5 Years	5 Years	5 Years

# INDUSTRIAL SERIAL-TO-WIRELESS DEVICE SERVERS

Industrial  
Serial  
Connectivity



Model Names		STW-611/612C Series
<b>Specifications</b>		
<b>Radio Specification</b>		
Data Rate	Up to 150Mbps	
<b>Ethernet Interface</b>		
Technology	IEEE 802.3, 802.3u	
Port	1*10/100Tx - RJ45 Port	
<b>Wireless Interface</b>		
Standard Compliance	IEEE 802.11b/g/n	
Tx / Rx	1T1R (1 x 1 w/ MCS 0-7)	
<b>Serial Interface</b>		
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	
<b>Software</b>		
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	
<b>Power Characteristics</b>		
Input Voltage	9 to 48VDC	
Power Consumption	~5.85W	
<b>Hardware Characteristics</b>		
Housing	Metal, IP50 Protection	
Dimensions	47 mm x 110 mm x 90mm	
Weight	1.1 lbs.	
Installation	Din-Rail, Wall Mounting (Optional)	
<b>Environmental Limits</b>		
Operating Temperature	-10C to 60C	
Storage Temperature	-40C to 85C	
Ambient Relative Humidity	5 to 95%, (Non-Condensing)	
<b>Standard and Certifications</b>		
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-300C Series	STF-401C Series	STF-501C Series
<b>Specifications</b>			
<b>Optical Fiber Interface</b>			
Fiber Connector	SC or ST	SC or ST	SC or ST
Cable Requirement	Multi-Mode: 50/125um, 62.5/125um / Single-Mode: 9/125um	Multi-Mode: 50/125um, 62.5/125um / Single-Mode: 9/125um	Multi-Mode: 50/125um, 62.5/125um / Single-Mode: 9/125um
Fiber Port	1*100Fx	1*100Fx	STF-501C: 1*100Fx / : 2*100Fx
Transmission Distance	Multi-Mode: 2km / Single-Mode: 30, 50, 80km	Multi-Mode: 2km / Single-Mode: 80km	Multi-Mode: 2km / Single-Mode: 80km
Wavelength	850 or 1310nm	1310nm	Multi-Mode in 1310nm / Single-Mode in 1310nm/1550nm
Tx Power	Multi-Mode: 11dB (2Km) / Single-Mode: 12~35dB (15~120Km)	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 <-32 dBm	Multi-Mode: - 31 dBm / Single-Mode: - 35 dBm
<b>Serial Interface</b>			
Serial Port Connector	1*RS-232/422/423/485	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	Up to 1024kbps (RS-485) Up to 256kbps (RS-232)	300bps to 921 kbps	50 Up to 1024Kbps (RS422/485), 230.4Kbps (RS232-CH1), 115.2Kbps (RS232-CH2)
Pull High/Low	Dip Switch Adjustment	Dip Switch Adjustment	Selected by 10 Position Rotary Switches
<b>Power Requirements</b>			
Power Input	12VDC @ 1A	9 to 48VDC	12, 24, 48 VDC (9.6 to 58VDC absolute)
Power Consumption	< 5 W	2.52W - @0.28A max, 9 VDC	5W
Power Connector	DC Power Barrel Jack	Removable 3-Pin Screw Terminal Block	Dual Power Inputs w/ Alarm Relay Contact
<b>Mechanical Characteristics</b>			
Housing	Metal, IP30	Metal, IP50 Protection	Metal, IP30 Protection
Dimensions	85.6 x 20.0 x 122.6mm	34.4 x 91.2 x 120mm	106 x 39 x 142mm
Weight	0.661 lb.	1.5 lbs.	1.6 lbs.
Mounting	Standalone	DIN-Rail Mounting, Wall Mounting (optional)	DIN-Rail Mounting, and Wall Mounting Kits Included
<b>Environmental Limits</b>			
Operating Temperature	0°C to 50°C	-40C to 70C	STD: 0C to 60C / EOT: -40C to 75C
Storage Temperature	0°C to 70°C	-40C to 85C	-40C to 85C
Ambient Relative Humidity	10% to 90%, (Non-Condensing)	5 to 95%, (Non-Condensing)	5 to 95% , (Non-Condensing)
<b>Regulatory Approvals</b>			
EMI	FCC Part15, CISPR (EN55022) Class A	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	EN61000-4-2, 4-3, 4-4, 4-5, 4-6
Free Fall	IEC-60068-2-32	MIL-STD-810F Method 516.5	IEC-60068-2-32
Shock	IEC-60068-2-6	MIL-STD-810F Method 516.5	IEC-60068-2-6
Vibration	IEC-60068-2-27	MIL-STD-810F Method 514.5 C-1 & C-2	IEC-60068-2-27
Green	RoHS Compliant	RoHS Compliant	RoHS Compliant
MTBF	257,063 Hours	216,388 Hours	797,101 Hours
Certifications	FCC, CE	FCC, CE	FCC, CE, UL
Warranty	5 Years	5 Years	5 Years

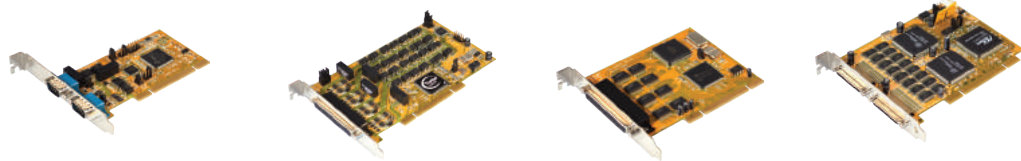
# SERIAL TO SERIAL CONVERTERS



Model Names	STS-1915 Series	STS-1920SI	STS-1921SI
<b>Specifications</b>			
Type	Serial to Serial	Serial Repeater	Serial Isolator
<b>Hardware Specification</b>			
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
<b>Parameters</b>			
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
<b>Power Requirements</b>			
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)
<b>Protection</b>			
Surge Protection	500W	-	15KV ESD Protection
Isolation Protection	250Vrms	-	2,500Vrms
<b>Environmental Limits</b>			
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

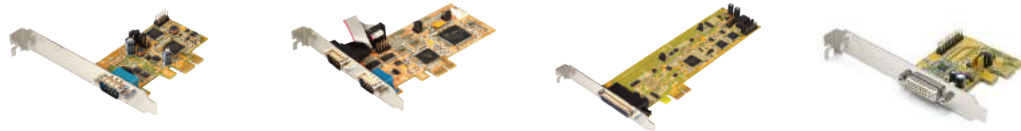


# MULTIPOINT SERIAL CARDS



Model Names	MSC-102 Series	MSC-104 Series	MSC-108 Series	MSC-116A
<b>Specifications</b>				
Type	Universal PCI Bus	Universal PCI Bus	Universal PCI Bus	Universal PCI Bus
<b>Hardware Specification</b>				
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
<b>Parameters</b>				
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
<b>Power Output</b>				
Power Over Serial	5 /12 VDC over DB9	5 /12 VDC over DB9	5 /12 VDC over DB9	5 /12 VDC over DB9
<b>Protection</b>				
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)	-	-
<b>Environmental Limits</b>				
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

# MULTIPOINT SERIAL CARDS



Model Names	MSC-201 Series	MSC-202 Series	MSC-204 Series	MSC-208 Series
<b>Specifications</b>				
Type	PCI Express	PCI Express	PCI Express	PCI Express
<b>Hardware Specification</b>				
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
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
Host Controller	16C550/16C950 UART Compatible	16C550/16C950 UART Compatible	16C550/16C950 UART Compatible	16C550/16C950 UART Compatible
<b>Parameters</b>				
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
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
<b>Power Output</b>				
Power Over Serial	5 /12 VDC over DB9	5 /12 VDC over DB9	5 /12 VDC over DB9	5 /12 VDC over DB9
<b>Protection</b>				
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)
<b>Environmental Limits</b>				
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

# INDUSTRIAL USB TO SERIAL CONVERTERS



Model Names	UTS-1110A	UTS-1458B	UTS-1461A-SI	UTS-401BK-SI
<b>Specifications</b>				
Type	USB to RS232	USB to RS422/485	USB to RS232	USB to RS422/485
<b>Hardware Specification</b>				
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
<b>Parameters</b>				
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
<b>Power Requirements</b>				
Power Input	Power from USB	Power from USB	Power from USB	Power from USB
Power Consumption	-	-	-	15mA @ 24 VDC
<b>Protection</b>				
Surge Protection	-	-	15KV ESD Protection	15KV ESD Protection
Isolation Protection	-	-	2,500Vrms	2,500Vrms
<b>Mechanical Characteristics</b>				
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
<b>Environmental Limits</b>				
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

# INDUSTRIAL USB TO SERIAL CONVERTERS



Model Names	UTS-402C Series	UTS-404A Series	UTS-408 Series	UTS-416AK
<b>Specifications</b>				
Type	USB to RS232/422/485	USB to RS232	USB to RS232 or 3-in-1	USB to R232
<b>Hardware Specification</b>				
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
<b>Parameters</b>				
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
<b>Power Requirements</b>				
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)	-	-
<b>Protection</b>				
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)	-
<b>Mechanical Characteristics</b>				
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
<b>Environmental Limits</b>				
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
<b>Specifications</b>					
Type	Industrial USB Hub	Industrial USB Hub	Industrial USB Hub	Industrial USB Hub	Industrial USB to Ethernet
<b>Hardware Specification</b>					
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
<b>Power Requirements</b>					
Power Input	Supports 1*DC Jack for External Power Input	1*DC Jack and 1* 2-Pin Terminal Block 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	7t~24VDC Input for Internal Network and USB Bus Power
<b>Mechanical Characteristics</b>					
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
<b>Environmental Limits</b>					
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

# ORDERING INFORMATION INDUSTRIAL SERIAL CONNECTIVITY

Name	Description
<b>Industrial Serial-to-Ethernet Device Servers</b>	
STE-501C	1-Port Industrial Serial RS232/422/485 to Ethernet Device Server
STE-502C	2-Port Industrial Serial RS232/422/485 to Ethernet Device Server
STE-601C	1-Port Industrial RS-232/422/485 To Ethernet Device Server (EOT -20°C ~ 70°C)
STE-6104C-T	4-Port Industrial Serial RS232/422/485 to Ethernet Device Server, w/DUAL LAN; EOT: -40°C to 80°C
STE-708A	8-Port 1U Rackmount Industrial RS232 Serial Device Server, AC Input
STE-708Bi	8-Port 1U Rackmount Industrial R422/485 Serial Device Server w/Optical Isolation, 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-716A	16-Port 1U Rackmount Industrial RS232 Serial Device Server, 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-716Bi	16-Port 1U Rackmount Industrial R422/485 Serial Device Server w/Optical Isolation, 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
SED-1010S	Industrial High Speed RS-232 Over CAT-5 Extender up to 1.2KM with Surge Protection & EOT -30°C ~ 75°C
<b>Industrial Serial-to-Fieldbus Gateways</b>	
STM-501C	1-Port RS232/422/485 Modbus TCP to Serial RTU/ASCII Gateway
STM-601C	Industrial Modbus TCP (two Ethernet port) to one Serial (232,422,485) RTU/ASCII Gateway
STM-601C-T	Industrial Modbus TCP (two Ethernet port) to one Serial (232,422,485) RTU/ASCII Gateway with Extended Operating Temperature
STM-602C	Industrial Modbus TCP (two Ethernet port) to two Serial (232,422,485) RTU/ASCII Gateway
STM-602C-T	Industrial Modbus TCP (two Ethernet port) to two Serial (232,422,485) RTU/ASCII Gateway with Extended Operating Temperature
STM-604C	Industrial Modbus TCP (two Ethernet port) to four Serial (232,422,485) RTU/ASCII Gateway
STM-604C-T	Industrial Modbus TCP (two Ethernet port) to four Serial (232,422,485) RTU/ASCII Gateway with Extended Operating Temperature
<b>Industrial Serial-to-Wireless Device Servers</b>	
STW-601C	1-Port Industrial RS-232/422/485 To Wi-Fi Device Server (EOT -20°C ~ 60°C)
STW-602C	2-Port Industrial RS-232/422/485 To Wi-Fi Device Server (EOT -20°C ~ 60°C)
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
<b>Industrial Serial-to-Fiber Converters</b>	
STF-300C-CM02	RS-232/422/485 To Fiber Converter, Multi-Mode 2KM, SC Connector
STF-300C-CS30	RS-232/422/485 To Fiber Converter, Single Mode 30KM, SC Connector
STF-300C-CS50	RS-232/422/485 To Fiber Converter, Single Mode 50KM, SC Connector
STF-300C-CS80	RS-232/422/485 To Fiber Converter, Single Mode 80KM, SC Connector
STF-300C-TM02	RS-232/422/485 To Fiber Converter, Multi-Mode 2KM, ST Connector
STF-300C-TS30	RS-232/422/485 To Fiber Converter, Single Mode 30KM, ST Connector
STF-300C-WA-M	RS-232/422/485 To Fiber Converter, WDM-A Tx:1310nmFP/Rx:1550nm MMF 2km, SC Connector
STF-300C-WA20	RS-232/422/485 To Fiber Converter, WDM-A 20KM, TX1310nm - RX1550nm, SC Connector
STF-300C-WB-M	RS-232/422/485 To Fiber Converter, WDM-B Tx:1550nm/Rx:1310nm MMF 2km, SC Connector
STF-300C-WB20	RS-232/422/485 To Fiber Converter, WDM-B 20KM, TX1550nm - RX1310nm, SC Connector
STF-401C-CM02-T	Industrial Compact RS232/422/485 to Fiber Converter, Multi-Mode 2km, SC Connector, -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

# ORDERING INFORMATION INDUSTRIAL SERIAL CONNECTIVITY

Serial-to-Serial Media Converters	
STS-1915S	RS232 To RS422/485 Converter w/ Surge Protection, Port-Powered, (External Power Adapter Optional)
STS-1915SI	RS-232 To RS-422/485 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 RS-232 Universal PCI Card, Low Profile, Low & Standard Profile Brackets Included
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-104CL	4-Port RS-232/422/485 Universal PCI Serial Card
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 RS-232 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-S	4-Port RS-232 PCI Express Card with Expansion Cable 1*DB44 to 4*DB9M
MSC-204A2	4-Port RS-232 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-208C-SI	8-Port RS232/422/485 PCI Express Card, w/ Surge and Isolation Protection (WHQL Certified)
Industrial USB-to-Serial	
UTS-1110A	Industrial USB to 1-Port RS232 Converter (DB9M) w/ Tx/Rx LED Indicators 80cm/2.6ft
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-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
USB-14010-SI	USB Isolator: Provides 2,500Vrms Isolation Between a USB Host and USB Peripheral
UTE-404K	4-Port USB 2.0 to Gigabit Ethernet Adapter



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
<b>Parameters</b>			
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
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	Mutli-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)
<b>Parameters</b>			
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)
Transmission Distance	Options: 550M to 80km	Options: 300M to 80km	Options: 300m-80km
Wavelength	Mutli-Mode: 850/1310nm Single-Mode: 1310/1550nm	Mutli-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	-6.5 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



Model Names	SFP-C	SFP-C1
Type	1G SFP	1G SFP
<b>Parameters</b>		
Compatible Version	Cisco, HP	Cisco, HP
Data Rate	1.25Gbps	1.25
Interface	RJ-45	RJ-45
Transmission Distance	Up to 100M	Up to 100M
Wavelength	No	No
Input Voltage	3.13~3.47 V	3.13~3.47 V
Maximum Voltage	30 mA	30 mA
Operating Temperature	0C to 70C	0C to 70C
Storage Temperature	-40C to 85C	-40C to 85C
RoHS Compliant	Yes	Yes
Dimensions	13.6 x 63.5 x 13.97 mm	13.6 x 63.5 x 13.97 mm
Warranty	5 Years	5 Years

# ORDERING INFORMATION

## SFP/SFP+ MODULES

Name	Description
<b>100Mbps SFP Module</b>	
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
<b>100Mbps SFP Module WDM</b>	
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
<b>1G SFP Module (Copper)</b>	
SFP-C	10/100/1000BASE-T Copper Ethernet SFP Transceiver, 0C to 70C
SFP-C1	1000BASE-T Copper Ethernet SFP Transceiver, 0C to 70C
<b>1G SFP Module</b>	
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-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
<b>1G SFP Modules (WDM)</b>	
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

# ORDERING INFORMATION SPF/XFP MODULES

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
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-A, 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



PRODUCT SELECTION GUIDE  
**ACCESSORIES**

# ORDERING INFORMATION ACCESSORIES

Ordering Information - Industrial Ethernet Accessories	
Name	Description
<b>Fiber Couplers</b>	
CPLR-SCSC-FD	Fiber Coupler - SC to SC - Female Duplex
CPLR-SCST-FD	Fiber Coupler - SC to ST - Female Duplex
<b>DIN-Rail Accessories</b>	
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-KIT-2	Upgraded DIN-Rail Clip for Ethernet Switches
<b>M12 Ethernet Cables</b>	
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
CB-M12T4PF-1M	M12 T Code 4P Female to Open Wire, 1 Meter, Wire: 16AWG, Power Cable
CB-M12X8PM-10CM	M12 X Code 8P Male to RJ45 Socket, 10CM
CB-M12A5PM-1M	M12 A Code 5P Male to Open End, 1 Meter, Wire: 22 Gauge

Ordering Information - Industrial Serial Accessories	
Name	Description
<b>Accessories - Serial Device Servers</b>	
CB-RJ45-DB9M-30	Connection Cable (RJ45-to-DB9M), for STE-516C, 30cm
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)
<b>Accessories - Serial Converters</b>	
PA-ST5-US	Power Adapter for ST5-, RN- Series, 5V/1A 100-240VAC
<b>Accessories - USB</b>	
CB-USB3.0-A-B-2M-K	USB 3.0 Cable, A to B w/ Locking Feature, 2M, Black
CB-USB2.0-A-B-2M-K	USB 2.0 Cable, A to B with Locking Feature, 2m, Black
CB-USB2.0-A-B-5M-K	USB 2.0 Cable, A to B with Locking Feature, 5m, Black
CB-USB2.0-B-M-6" (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)
<b>Adapters - Serial Connectivity</b>	
AD-DB9F-DB25M	Serial Adapter - DB9 Female to DB25 Male Adapter
AD-DB9F-TB2P38	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
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

Ordering Information - Ethernet Media Converters Accessories	
Name	Description
<b>Mounting Brackets</b>	
FCU-BK	Mounting Bracket for FCU Modules (1 Pair)
<b>Power Adapters</b>	
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-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)
<b>Rack Chassis Accessories</b>	
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

Ordering Information - Accessories - Power Supplies	
Name	Description
<b>DIN-Rail Power Supplies</b>	
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
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
<b>Power Cords</b>	
PWRCORD-EU	Power Cord (Euro Plug)
PWRCORD-UK	Power Cord (UK Plug)
PWRCORD-US	Power Cord (US Plug)

## Ordering Information - Accessories - Cables

Name	Description
<b>Fiber Patch Cables</b>	
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-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-SD	ST to ST 2 Meter Single-Mode Duplex Cable
<b>SFP+ 10G Cables</b>	
CB-SFP+1M	SFP+ 10GbE Direct Attach Passive Copper Cable, Male to Male, 1M (3.3ft) 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



# 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,  $\approx 0.2$  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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