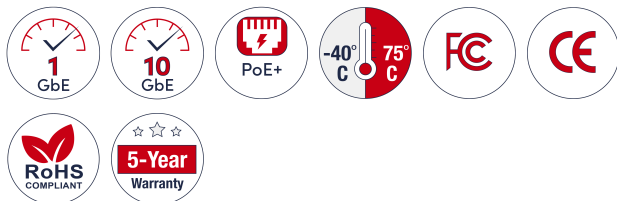


## LMP-2812G-4X8S(-T)

## LMP-2812G-4X8S-24(-T)



**MANAGED RACKMOUNT GIGABIT POE+  
WITH 1G/10G SFP+ SLOTS**

**MANAGED RACKMOUNT GIGABIT POE+  
WITH 1G/10G SFP+ SLOTS, LOW VOLTAGE INPUT**

### PORT CONFIGURATION

- Support 16\*10/100/1000BASE-T Gigabit IEEE 802.3af/at Compliant PoE Ports (30W/Port)
- Support 4\*1G/2.5G/10G SFP+ Slots and 8\*100/1000 SFP Slots

### MANAGEMENT

- ITU-T G.8032 Ethernet Ring Protection Switch (ERPS) Protocol
- IEEE 802.1D STP (Spanning Tree Protocol), IEEE 802.1w RSTP (Rapid Spanning Tree Protocol), IEEE 802.1s MSTP (Multiple Spanning Tree Protocol)
- Static Routes, ARP
- SNMPv1/v2c/v3, RMON, Modbus TCP, and HTTP/HTTPS

### SECURITY

- RADIUS, TACACS+, 802.1X Authentication
- ACL, IP Source Guard
- VLAN, QoS, and, SNMPv3

### RUGGED DESIGN

- IP30 Rugged Metal Case Design
- iPoE Budget Control
- Redundant Power Input
- Fanless Operation
- Power Reverse Polarity Protection
- High EFT and ESD Protection
- Operating Temperature - STD: -10°C to 65°C, EOT: -40°C to 75°C
- 5-Year Warranty

## INTRODUCTION

The LMP-2812G-4X8S Series is a 28-port Industrial Gigabit Light Layer 3 Managed Ethernet Switch that is embedded with 16\*10/100/1000BASE-T Ethernet ports that support IEEE802.3af/at for a maximum of 30W/port, 4\*1G/2.5G/10G SFP+ fiber ports and 8\*1G fiber ports that support either Single or Multi-Mode modules.

The LMP-2812G-4X8S-24 Series is a 28-port Industrial Gigabit Light Layer 3 Managed Ethernet Switch that is embedded with 16\*10/100/1000BASE-T Ethernet ports that support IEEE802.3af/at for a maximum of 30W/port at a low voltage input (12~55VDC), 4\*1G/2.5G/10G SFP+ fiber ports and 8\*1G fiber ports that support either Single or Multi-Mode modules.

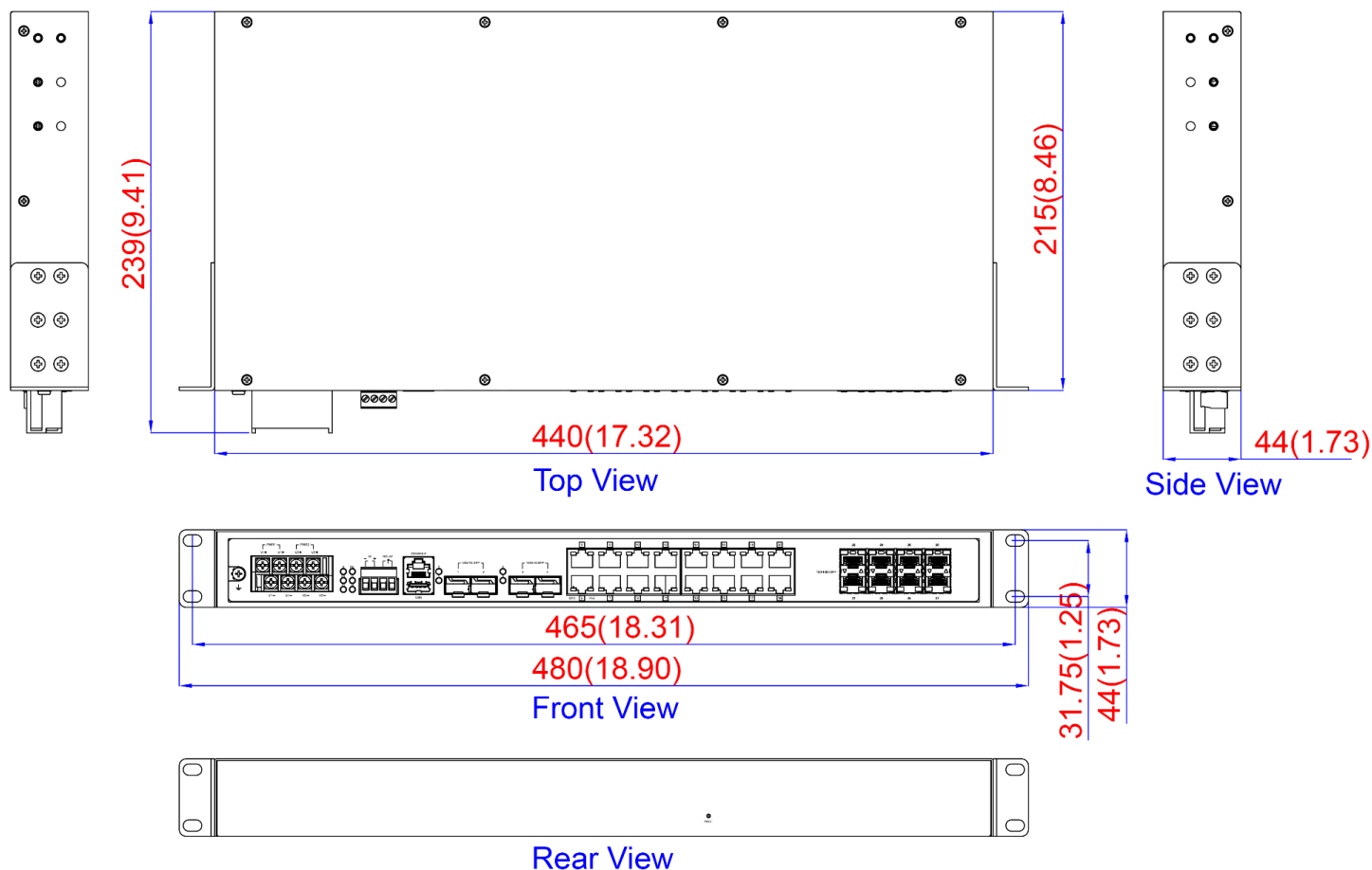
LMP-2812G-4X8S Series provides comprehensive network security and management capability by supporting Multiusers account, IGMP, GVRP, VLAN, QoS, SNMP, RADIUS, TACACS+, Aggregation (Static, LACP), SSH, SSL, IP source guard to create a highly-secured network environment. For power saving purpose, assuring PD priority and enhancing security level of the network, LMP-2812G-4X8S Series also supports PoE scheduling and PoE output limit function to set up PoE output duration and watt at will.

LMP-2812G-4X8S Series as an industrial Ethernet switch product line, is designed to withstand harsh and extreme environment conditions. With fanless design, LMP-2812G-4X8S Series still manages to be applied in extremely polarized temperatures, from -40°C to 75°C, making it the best choice in various industrial applications.

SPECIFICATIONS

| Hardware Specifications |             |          |               |              |          |                                                                       |              |               |                             |
|-------------------------|-------------|----------|---------------|--------------|----------|-----------------------------------------------------------------------|--------------|---------------|-----------------------------|
| Part Number             | Total Ports | RJ-45 GE | SFP 10G Fiber | SFP 1G Fiber | 30W PoE+ | PoE Power Budget                                                      | System Power | Input Voltage | Operating Temp.             |
| LMP-2812G-4X8S          | 28          | 16       | 4             | 8            | 16       | 480W                                                                  | 38.5W        | 48-55VDC      | -10 to 65°C<br>14 to 149°F  |
| LMP-2812G-4X8S-T        | 28          | 16       | 4             | 8            | 16       | 480W                                                                  | 38.5W        | 48-55VDC      | -40 to 75°C<br>-40 to 167°F |
| LMP-2812G-4X8S-24       | 28          | 16       | 4             | 8            | 16       | 150W@12VDC<br>300W@24VDC<br>480W@48-55VDC<br>with iPoE Budget Control | 38.5W        | 12-55VDC      | -10 to 65°C<br>14 to 149°F  |
| LMP-2812G-4X8S-24-T     | 28          | 16       | 4             | 8            | 16       | 150W@12VDC<br>300W@24VDC<br>480W@48-55VDC<br>with iPoE Budget Control | 38.5W        | 12-55VDC      | -40 to 75°C<br>-40 to 167°F |

| Physical Specifications                  |                                           |               |                   |                |             |                   |                                                                                                                         |
|------------------------------------------|-------------------------------------------|---------------|-------------------|----------------|-------------|-------------------|-------------------------------------------------------------------------------------------------------------------------|
| Part Number                              | Dimensions (W x H x D)                    | Weight (Unit) | Weight (Shipping) | Mounting       | Housing     | PoE LED Indicator | PoE Pin Assignment                                                                                                      |
| LMP-2812G-4X8S<br>LMP-2812G-4X8S-T       | 440 x 44 x 215mm<br>17.32 x 1.73 x 8.46in | 8.82lb        | 11.02lb           | 19" Rack-Mount | Metal, IP30 | Yes               | V-, V-, V+, V+, for pin 1, 2, 3, 6<br>V+, V+, V-, V-, for pin 4, 5, 7, 8<br>*Support Modes: Mode A, Mode B, 4-Pair Mode |
| LMP-2812G-4X8S-24<br>LMP-2812G-4X8S-24-T | 440 x 44 x 215mm<br>17.32 x 1.73 x 8.46in | 9.41lb        | 11.02lb           | 19" Rack-Mount | Metal, IP30 | Yes               | V-, V-, V+, V+, for pin 1, 2, 3, 6<br>V+, V+, V-, V-, for pin 4, 5, 7, 8<br>*Support Modes: Mode A, Mode B, 4-Pair Mode |



## Standards

| Part Number                              | IEEE Standards                                                                                                                               |                                                                                                                                                                                                                                                                        |
|------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| LMP-2812G-4X8S<br>LMP-2812G-4X8S-T       | IEEE 802.3 10BASE-T Ethernet<br>IEEE 802.3u 100BASE-T Fast Ethernet<br>IEEE 802.3ab 1000BASE-T Gigabit Ethernet<br>IEEE 802.3z Gigabit Fiber | IEEE 802.3x Flow Control for Full Duplex<br>IEEE 802.3ad for Port Trunk with LACP<br>IEEE 802.1D STP (Spanning Tree Protocol)<br>IEEE 802.1w RSTP (Rapid Spanning Tree Protocol)<br>IEEE 802.1s MSTP (Multiple Spanning Tree Protocol)<br>IEEE 802.1Q for VLAN Tagging |
| LMP-2812G-4X8S-24<br>LMP-2812G-4X8S-24-T | IEEE 802.3af Power over Ethernet<br>IEEE 802.3at Power over Ethernet Plus                                                                    | IEEE 802.1X for Network Authentication<br>IEEE 802.1p QoS/CoS Protocol for Traffic Prioritization<br>ITU-T G.8032/Y.1344 ERPS (Ethernet Ring Protection Switch)<br>IEEE 802.1AB Link Layer Discovery Protocol (LLDP)                                                   |

## Key Firmware Features

|                         |                                                                                                                                                                                                                 |                                                                                                                                                                                                                                                                                     |
|-------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| VLAN                    | Private VLAN<br>Port-based VLAN<br>IP Subnet-based VLAN<br>GARP/GVRP<br>Guest VLAN                                                                                                                              | MAC-based VLAN<br>Protocol-based VLAN<br>VLAN Trunking                                                                                                                                                                                                                              |
| Layer 2 Switching       | STP<br>MSTP<br>RSTP<br>Port Mirror<br>Loop Guard<br>BPDU Guard                                                                                                                                                  | MEP<br>G.8032 ESP v1/v2<br>Loop Detection<br>LACP<br>Error Disable Recovery                                                                                                                                                                                                         |
| Layer 2 Multicast       | IGMPv1/v2/v3 Snooping<br>IGMP Filtering<br>IPMC Filtering Leave Proxy                                                                                                                                           | MLDv1/v2 Snooping<br>IPMC Throttling                                                                                                                                                                                                                                                |
| Light Layer 3 Switching | Static Route<br>ARP                                                                                                                                                                                             |                                                                                                                                                                                                                                                                                     |
| QoS                     | 802.1p Queueing<br>Input Priority Mapping<br>Port/Queue/ACL policer<br>DiffServ (DSCP)                                                                                                                          | Port Egress Shaper<br>Queue Egress Shaper<br>Tag Remarking<br>Scheduler Mode                                                                                                                                                                                                        |
| Power Saving            | ActiPHY<br>PerfectReach<br>IEEE 802.3az EEE power management                                                                                                                                                    |                                                                                                                                                                                                                                                                                     |
| PoE                     | Power Budget Protection<br>PoE Alive Check<br>PoE Output Scheduling                                                                                                                                             |                                                                                                                                                                                                                                                                                     |
| Security                | SSHv2<br>Port-based 802.1X<br>MAC-based Authentication<br>QoS Assignment<br>TACACS+<br>Web/CLI Authentication<br>Port Security<br>IP Source Guard<br>DHCP Snooping<br>Secure Copy Protocol (SCP)                | IP Based Access Filter<br>Access Control List (ACL)<br>ACL for Filtering/Policing/Port Copy<br>VLAN Assignment<br>IP MAC Binding<br>User Privilege (15 levels)<br>RADIUS Authentication and Accounting<br>ARP Inspection<br>Broadcast/Multicast/Unicast Storm Control<br>Secure FTP |
| Management              | IPv4/IPv6<br>LLDP/LLDP-MED<br>DHCP Client<br>DHCP Server<br>DNS Proxy<br>Syslog<br>Daylight Saving<br>RMON<br>Command Line Interface (CLI)<br>Relay Trigger<br>Telnet<br>Dual Image Protection<br>Ping6<br>DDMI | SNMP v1/v2c/v3<br>HTTP/HTTPS<br>DHCPv6 Client<br>DNS Client<br>ICMPv6<br>Time Zone<br>NTP Client<br>sFlow<br>Power Lost Warning<br>DHCP Option 82<br>TFTP<br>Ping<br>USB Configuration Backup/Restore<br>Modbus TCP                                                                 |

## Switch Properties

| Specification       |                                         | Specification        |                 |
|---------------------|-----------------------------------------|----------------------|-----------------|
| Switch Architecture | Back-Plane (Switching Fabric): 128Gbps  | MAC Table Size       | 32K             |
| Priority Queues     | 8                                       | VLAN Group           | 4095            |
| Processing Type     | Store and Forward                       | IGMP Group           | 1024            |
| Flow Control        | IEEE 802.3x flow control, back pressure | RS232 Serial Console | 1*RS232 in RJ45 |

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|               |              |                             |                     |
|---------------|--------------|-----------------------------|---------------------|
|               | flow control |                             |                     |
| Packet Buffer | 32Mbits      | Relay Contact               | 24VDC, 1A resistive |
| Transfer Rate | 416.64 Mpps  | Overload Current Protection | Present             |
| Jumbo Frame   | 10Kbytes     | Reverse Polarity Protection | Present             |

| Compliance Specifications |                                                                           |
|---------------------------|---------------------------------------------------------------------------|
| EMI                       | FCC Part 15 Subpart B Class A<br>EN 61000-6-4 Class A<br>CE EN55032       |
| EMS                       | CE EN 55035<br>EN 61000-6-2<br>IEC 61000-4-2,3,4,5,6,8                    |
| Free Fall                 | IEC 60068-2-32                                                            |
| Shock                     | IEC 60068-2-27                                                            |
| Vibration                 | IEC 60068-2-6                                                             |
| Green                     | RoHS Compliant                                                            |
| Certifications            | FCC, CE<br>UL 61010-1, UL 61010-2-201 (Pending)<br>ISA 12.12.01 (Pending) |
| Storage Temperature       | -40 to 85°C (-40 to 185°F)                                                |
| Humidity                  | Ambient Relative Humidity<br>5% to 95%, (non-condensing)                  |
| Warranty                  | 5 Years                                                                   |

| Mean Time Between Failures (MTBF) |                                  |                     |                                  |
|-----------------------------------|----------------------------------|---------------------|----------------------------------|
| Part Number                       | MTBF (Telcordia SR-332, Issue 3) | Part Number         | MTBF (Telcordia SR-332, Issue 3) |
| LMP-2812G-4X8S                    | 166,201.1845 hrs.                | LMP-2812G-4X8S-T    | 166,201.1845 hrs.                |
| LMP-2812G-4X8S-24                 | 163,204.4663 hrs.                | LMP-2812G-4X8S-24-T | 163,204.4663 hrs.                |

ORDERING INFORMATION

| Switch Models       |                                                                                                                                                                                |
|---------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Part Number         | Description                                                                                                                                                                    |
| LMP-2812G-4X8S      | 28-Port Industrial Gigabit PoE+ Managed Ethernet Switch, with 16*10/100/1000BASE-T PoE-PSE (30W/Port), 4*1G/2.5G/10G SFP+ Slots and 8*1G SFP Slots, 48-55VDC                   |
| LMP-2812G-4X8S-T    | 28-Port Industrial Gigabit PoE+ Managed Ethernet Switch, with 16*10/100/1000BASE-T PoE-PSE (30W/Port), 4*1G/2.5G/10G SFP+ Slots and 8*1G SFP Slots, 48-55VDC; EOT: -40 to 75°C |
| LMP-2812G-4X8S-24   | 28-Port Industrial Gigabit PoE+ Managed Ethernet Switch, with 16*10/100/1000BASE-T PoE-PSE (30W/Port), 4*1G/2.5G/10G SFP+ Slots and 8*1G SFP Slots, 12-55VDC                   |
| LMP-2812G-4X8S-24-T | 28-Port Industrial Gigabit PoE+ Managed Ethernet Switch, with 16*10/100/1000BASE-T PoE-PSE (30W/Port), 4*1G/2.5G/10G SFP+ Slots and 8*1G SFP Slots, 12-55VDC; EOT: -40 to 75°C |

| Power Supply Options |                                                                         |               |                              |                       |
|----------------------|-------------------------------------------------------------------------|---------------|------------------------------|-----------------------|
| Part Number          | Wattage                                                                 | Input Voltage | PoE/PoE+ Support             | Operating Temperature |
| NDR-120-48           | 120W                                                                    | 88-264VAC     | Yes, Voltage Adjust 48-55VDC | -20-70°C / -4-158°F   |
| NDR-240-48           | 240W                                                                    | 88-264VAC     | Yes, Voltage Adjust 48-55VDC | -20-70°C / -4-158°F   |
| NDR-480-48           | 480W                                                                    | 90-264VAC     | Yes, Voltage Adjust 48-55VDC | -20-70°C / -4-158°F   |
| SDR-120-48           | 120W                                                                    | 88-264VAC     | Yes, Voltage Adjust 48-55VDC | -25-70°C / -13-158°F  |
| SDR-240-48           | 240W                                                                    | 88-264VAC     | Yes, Voltage Adjust 48-55VDC | -25-70°C / -13-158°F  |
| SDR-480-48           | 480W                                                                    | 90-264VAC     | Yes, Voltage Adjust 48-55VDC | -25-70°C / -13-158°F  |
| SDR-960-48           | 960W                                                                    | 180-264VAC    | Yes, Voltage Adjust 48-55VDC | -30-70°C / -22-158°F  |
| PWRCORD2-US          | AC Power Cord NEMA 5-15P to ROJ 3-Wire Open End (US Plug) 18 AWG 6 feet |               |                              |                       |

| SFP Modules with DDMI |          |             |                |           |            |                       |                |
|-----------------------|----------|-------------|----------------|-----------|------------|-----------------------|----------------|
| Part Number           | Speed    | Mode        | Distance       | Connector | Wavelength | Operating Temperature | TAA Compliance |
| SFP-10G-S10-T         | 10Gbps   | Single Mode | 10km / 6.2mi   | LC        | 1310nm     | -40-85°C / -40-185°F  | -              |
| SFP-10G-S40-T         | 10Gbps   | Single Mode | 40km / 24.8mi  | LC        | 1310nm     | -40-85°C / -40-185°F  | -              |
| SFP-S10-T             | 1.25Gbps | Single Mode | 10km / 6.2mi   | LC        | 1310nm     | -40-85°C / -40-185°F  | -              |
| SFP-S10-T-TAA         | 1.25Gbps | Single Mode | 10km / 6.2mi   | LC        | 1310nm     | -40-85°C / -40-185°F  | Yes            |
| SFP-S20-T             | 1.25Gbps | Single Mode | 20km / 12.4mi  | LC        | 1310nm     | -40-85°C / -40-185°F  | -              |
| SFP-S40-T             | 1.25Gbps | Single Mode | 40km / 24.8mi  | LC        | 1310nm     | -40-85°C / -40-185°F  | -              |
| SFP-S40-T-TAA         | 1.25Gbps | Single Mode | 40km / 24.8mi  | LC        | 1310nm     | -40-85°C / -40-185°F  | Yes            |
| SFP-S120-T            | 1.25Gbps | Single Mode | 120km / 74.5mi | LC        | 1550nm     | -40-85°C / -40-185°F  | - -            |
| SFP-M-T-TAA           | 1.25Gbps | Multi Mode  | 550m / 0.34mi  | LC        | 850nm      | -40-85°C / -40-185°F  | Yes            |
| SFP-C                 | 1Gbps    | -           | -              | Copper    | -          | 0-70°C / 32-158°F     | -              |

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