LMX-2812G-4X8S(-T)

MANAGED RACKMOUNT GIGABIT ETHERNET WITH 1G/10G SFP+ SLOTS

PORT CONFIGURATION

- Support 16*10/100/1000BASE-T Gigabit Ethernet Ports
- 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
- Layer 3 Switching: OSPF v2/v3, RIP v2/RIPng, VRRP v2/v3, DHCP option82, Static Routes

SECURITY

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

RUGGED DESIGN

- IP30 Rugged Metal Case Design
- 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 LMX-2812G-4X8S Series is a 28-port Industrial Gigabit Layer 3 Managed Ethernet Switch that is embedded with 16*10/100/1000BASE-T Ethernet ports, 4*1G/2.5G/10G SFP+ fiber ports, and 8*1G SFP fiber ports that support either Single or Multi-Mode modules.

LMX-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.

LMX-2812G-4X8S Series as an industrial Ethernet switch product line is designed to withstand harsh and extreme environment conditions. With fan less design, LMX-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.

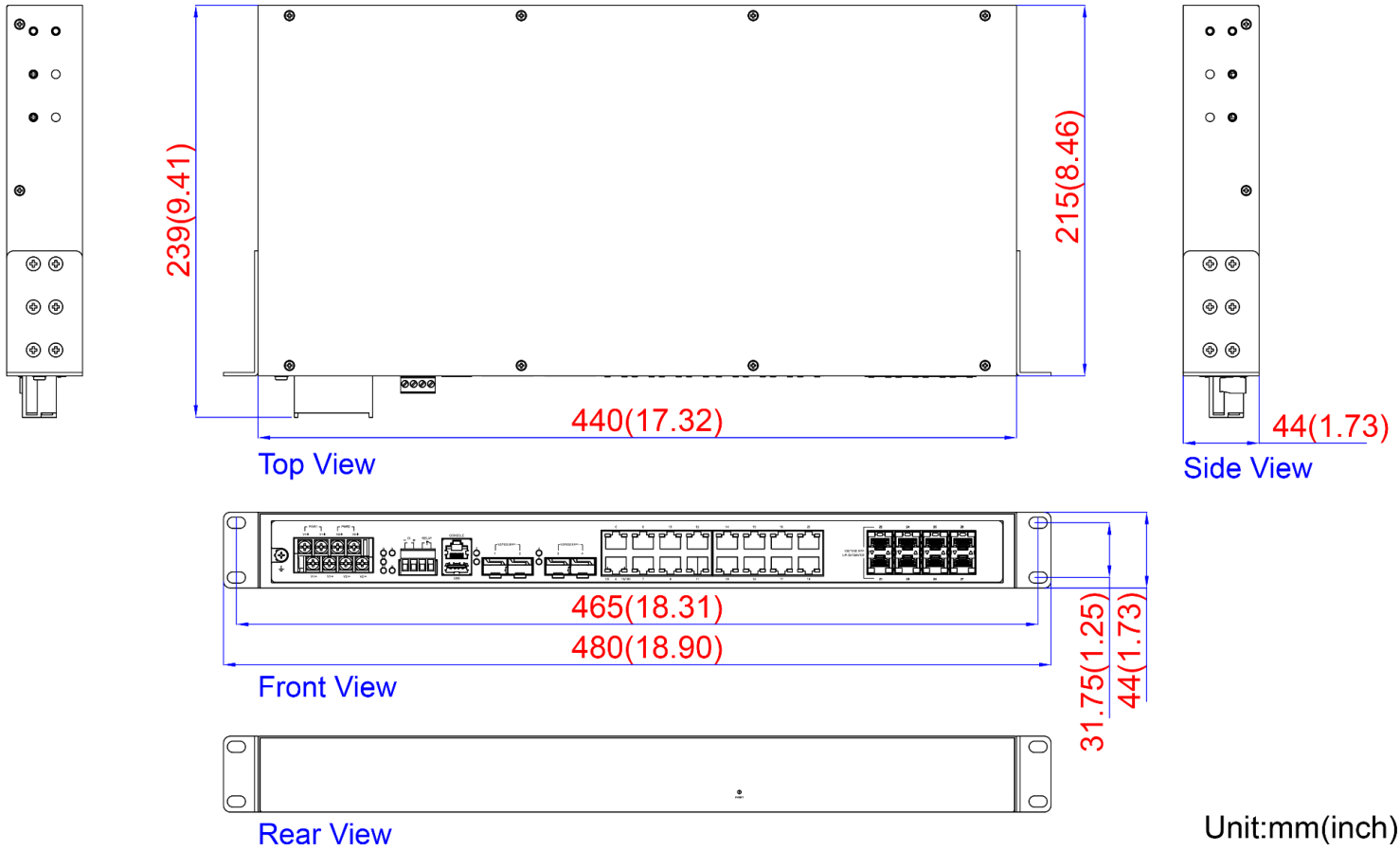
SPECIFICATIONS

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.
LMX-2812G-4X8S	28	16	4	8	-	-	38.5W	12-48VDC	-10 to 65°C 14 to 149°F
LMX-2812G-4X8S-T	28	16	4	8	-	-	38.5W	12-48VDC	-40 to 75°C -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
LMX-2812G-4X8S LMX-2812G-4X8S-T	440 x 44 x 215mm 17.32 x 1.73 x 8.46in	9.39lb	10.98lb	19" Rack-Mount	Metal, IP30	-	-



Standards

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

Key Firmware Features

VLAN	Private VLAN Port-based VLAN IP Subnet-based VLAN GARP/GVRP Guest VLAN	MAC-based VLAN Protocol-based VLAN VLAN Trunking Voice VLAN
Layer 2 Switching	STP MSTP RSTP Port Mirror Loop Guard BPDU Guard	MEP G.8032 ESP v1/v2 Loop Detection LACP Error Disable Recovery
Layer 2 Multicast	IGMPv1/v2/v3 Snooping IGMP Filtering IPMC Filtering Leave Proxy	MLDv1/v2 Snooping IPMC Throttling
Layer 3 Switching	OSPFv2, OSPFv3 RIPv2, RIPng VRRPv2, VRRPv3	Static Route ARP NAT
QoS	802.1p Queueing Input Priority Mapping Port/Queue/ACL policer DiffServ (DSCP)	Port Egress Shaper Queue Egress Shaper Tag Remarking Scheduler Mode
Power Saving	ActiPHY PerfectReach IEEE 802.3az EEE power management	
Security	SSHv2 Port-based 802.1X MAC-based Authentication QoS Assignment TACACS+ Web/CLI Authentication Port Security IP Source Guard DHCP Snooping Secure Copy Protocol (SCP)	IP Based Access Filter Access Control List (ACL) ACL for Filtering/Policing/Port Copy VLAN Assignment IP MAC Binding User Privilege (15 levels) RADIUS Authentication and Accounting ARP Inspection Broadcast/Multicast/Unicast Storm Control Secure FTP
Management	IPv4/IPv6 LLDP/LLDP-MED DHCP Client DHCP Server DNS Proxy Syslog Daylight Saving RMON Command Line Interface (CLI) Relay Trigger Telnet Dual Image Protection Ping6 DDMI	SNMP v1/v2c/v3 HTTP/HTTPS DHCPv6 Client DNS Client ICMPv6 Time Zone NTP Client sFlow Power Lost Warning DHCP Option 82 TFTP Ping USB Configuration Backup/Restore 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 flow control	RS232 Serial Console	1*RS232 in RJ45
Packet Buffer	32Mbits	Relay Contact	24VDC, 1A resistive
Transfer Rate	95.232 Mpps	Overload Current Protection	Present
Jumbo Frame	10Kbytes	Reverse Polarity Protection	Present

Compliance Specifications

EMI	FCC Part 15 Subpart B Class A EN 61000-6-4 Class A CE EN55032
EMS	CE EN 55035 EN 61000-6-2 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 UL 61010-1, UL 61010-2-201 UL Class 1 Division 2 ISA 12.12.01
Storage Temperature	-40 to 85°C (-40 to 185°F)
Humidity	Ambient Relative Humidity 5% to 95%, (non-condensing)
Country of Origin	Made in Taiwan - TAA / NDAA Compliant
Warranty	5 Years

Mean Time Between Failures (MTBF)

Part Number	MTBF (Telcordia SR-332, Issue 3)	Part Number	MTBF (Telcordia SR-332, Issue 3)
LMX-2812G-4X8S	195,504.9947 hrs.	LMX-2812G-4X8S-T	195,504.9947 hrs.

ORDERING INFORMATION

Switch Models

Part Number	Description
LMX-2812G-4X8S	28-Port Industrial Gigabit Managed Ethernet Switch, with 16*10/100/1000BASE-T, 4*1G/2.5G/10G SFP+ Slots and 8*1G SFP Slots, 12-48VDC
LMX-2812G-4X8S-T	28-Port Industrial Gigabit Managed Ethernet Switch, with 16*10/100/1000BASE-T, 4*1G/2.5G/10G SFP+ Slots and 8*1G SFP Slots, 12-48VDC; 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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America Headquarters
+1-714-671-9000
info@antaira.com | antaira.com

Asia Office
+886-2-2218-9733
info@antaira.com.tw | antaira.com.tw

Europe Office
+48 22 862 88 81
info@antaira.eu | antaira.eu