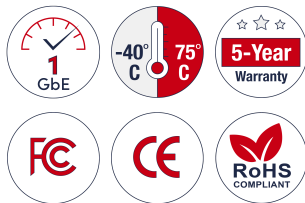
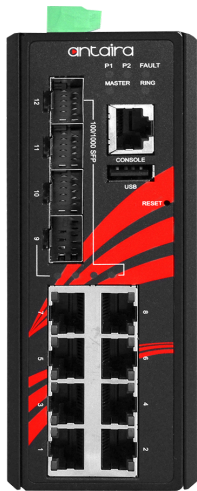


LMX-1204G-SFP-T-BABA

**MANAGED GIGABIT ETHERNET WITH SFP SLOTS,
BUILD AMERICA, BUY AMERICA (BABA) ACT
COMPLIANT**



PORT CONFIGURATION

- Support 8*10/100/1000BASE-T Gigabit Ethernet
- Support 4*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

SECURITY

- RADIUS, TACACS+, 802.1X Authentication
- ACL, IP Source Guard, SNMP v3
- IGMP, VLAN, QoS, SNMP, RMON, Modbus TCP, and 802.1X/HTTPS/SSH/SSL

RUGGED DESIGN

- IP30 Rugged Metal Case Design
- Redundant Power Input
- Fanless Operation
- Power Reverse Polarity Protection
- High EFT and ESD Protection
- Operating Temperature – EOT: -40°F to 167°F
-40°C to 75°C
- 5-Year Warranty
- Build America Buy America Act Compliant

INTRODUCTION

The LMX-1204G-SFP-T-BABA is a 12-port Industrial Gigabit Light Layer 3 Managed Ethernet Switch that is embedded with 8*10/100/1000BASE-T Ethernet ports and 4*100/1000Fx SFP fiber ports that support either Single or Multi-Mode modules. This switch is Build America Buy America compliant.

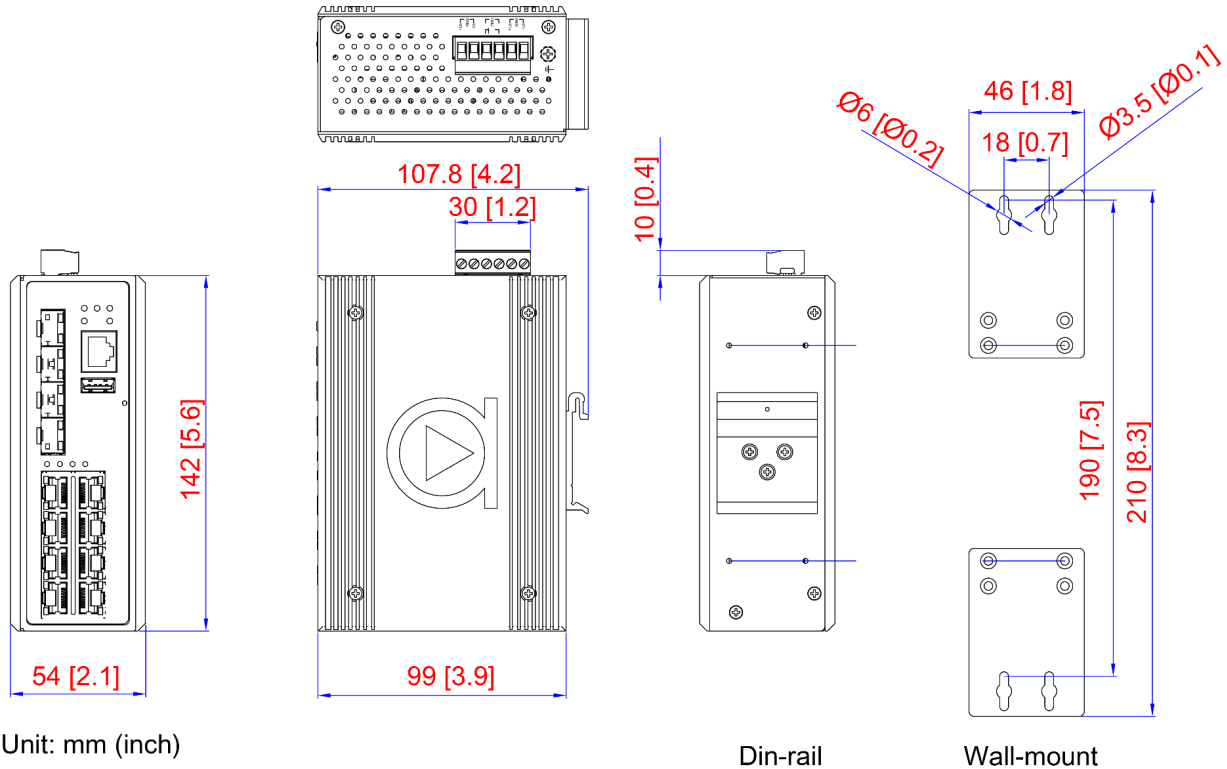
SPECIFICATIONS

Hardware Specifications

Part Number	Total Ports	RJ-45 GE	SFP GE Fiber	System Power	Input Voltage	Operating Temp.
LMX-1204G-SFP-T-BABA	12	8	4	15W	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
LMX-1204G-SFP-T-BABA	54 x 142 x 99mm 2.13 x 5.59 x 3.9in	1.13kg 2.5lb	1.36kg 3.0lb	DIN-Rail Wall-Mount	Metal, IP30



Standards

Part Number	IEEE Standards
LMX-1204G-SFP-T-BABA	<p>IEEE 802.3 10BASE-T Ethernet</p> <p>IEEE 802.3u 100BASE-T Fast Ethernet</p> <p>IEEE 802.3ab 1000BASE-T Gigabit Ethernet</p> <p>IEEE 802.3z Gigabit Fiber</p> <p>IEEE 802.3x Flow Control for Full Duplex</p> <p>IEEE 802.3ad for Port Trunk with LACP</p> <p>IEEE 802.1D STP (Spanning Tree Protocol)</p> <p>IEEE 802.1w RSTP (Rapid Spanning Tree Protocol)</p> <p>IEEE 802.1s MSTP (Multiple Spanning Tree Protocol)</p> <p>IEEE 802.1Q for VLAN Tagging</p> <p>IEEE 802.1X for Network Authentication</p> <p>IEEE 802.1p QoS/CoS Protocol for Traffic Prioritization</p> <p>ITU-T G.8032/Y.1344 ERPS (Ethernet Ring Protection Switch)</p> <p>IEEE 802.1AB Link Layer Discovery Protocol (LLDP)</p>

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	DHCP option82 Static Routes ARP	
QoS	802.1p Queueing Input Priority Mapping Storm Control for Unicast/Multicast/Broadcast Port/Queue/ACL policer	Port Egress Shaper Queue Egress Shaper DiffServ (DSCP) Tag Remarking Scheduler Mode
Power Saving	ActiPHY PerfectReach IEEE 802.3az EEE power management	
Configuration	HTTP HTTPS Telnet Telnet Client Telnet Disable via CLI or Web GUI	SSH CLI TFTP SNMP v3 SMTP
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 Server and Client Dual Image Protection Ping6 DDMI SMTP	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

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Switch Properties

Specification		Specification	
Switch Architecture	Back-Plane (Switching Fabric): 24Gbps	MAC Table Size	8K
Priority Queues	8	VLAN Group	4094
Processing Type	Store and Forward	IGMP Group	256
Flow Control	IEEE 802.3x flow control, back pressure flow control	RS232 Serial Console	1*RS232 in RJ45
Packet Buffer	4Mbits	Relay Contact	24VDC, 1A resistive
Transfer Rate	14,880pps for Ethernet Port 148,800pps for Fast Ethernet Port 1,488,000pps for Gigabit Ethernet Port	Overload Current Protection	Present
Jumbo Frame	9.6Kbytes	Reverse Polarity Protection	Present

Compliance Specifications

EMI	FCC Part 15 Subpart B Class A CE EN 55022/EN 61000-6-4 Class A
EMS	CE EN 55024/EN 61000-6-2 Class A: 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 (pending) Build America Buy America Act Compliant Designed to meet UL Class 1 Division 2, NEMA TS2, ATEX standards
Operating Temperature	EOT: -40 to 167°F (-40 to 75°C)
Storage Environment	Storage Temperature: -40 to 85°C
Humidity	Ambient Relative Humidity: 5% to 95% (non-condensing)
Warranty	5 Years
Country of Origin	Made in USA

Mean Time Between Failures (MTBF)

Part Number	MTBF (Telcordia SR-332, Issue 3)
LMX-1204G-SFP-T-BABA	536,427 hrs.

ORDERING INFORMATION

Switch Models

Part Number	Description
LMX-1204G-SFP-T-BABA	12-Port Industrial Gigabit Light Layer 3 Managed Ethernet Switch, w/8*10/100/1000Tx RJ45 and 4*100/1000 SFP Slots; EOT: -40°~75°C, Built America Buy America Act Compliant

Power Supply Option (Made in Germany)

Part Number	Wattage	Input Voltage	Output Voltage	Operating Temperature	TAA Compliance
ML60.242	60W	100-240VAC	24VDC (Adjustment Range 24-28VDC)	-40-70°C / -40-158°F	Yes

SFP Modules (Made in Taiwan)

Part Number	Speed	Mode	Distance	Connector	Wavelength	Operating Temperature	TAA Compliance
SFP-S10-T-TAA	1.25Gbps	Single Mode	10KM	LC	1310nm	-40-85°C / -40-185°F	Yes
SFP-S40-T-TAA	1.25Gbps	Single Mode	40KM	LC	1310nm	-40-85°C / -40-185°F	Yes
SFP-WA10-T-TAA	1Gbps	WDM-A, SM	10KM	LC	TX:1310nm RX:1550nm	-40-85°C / -40-185°F	Yes
SFP-WB10-T-TAA	1Gbps	WDM-B, SM	10KM	LC	TX:1550nm RX:1310nm	-40-85°C / -40-185°F	Yes
SFP-M-T-TAA	1.25Gbps	Multi Mode	550M	LC	850nm	-40-85°C / -40-185°F	Yes
SFP-100M-T-TAA	155Mbps	Multi Mode	2KM	LC	1310nm	-40-85°C / -40-185°F	Yes

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Specifications are subject to change without notice and without incurring any obligation.