

LMP-0501 Series

5-Port Industrial PoE+ Managed Ethernet Switch, w/4*10/100Tx (30W/Port) and 1*100Fx (SC/ST) Fiber Port, 48~55VDC Power Input



Features

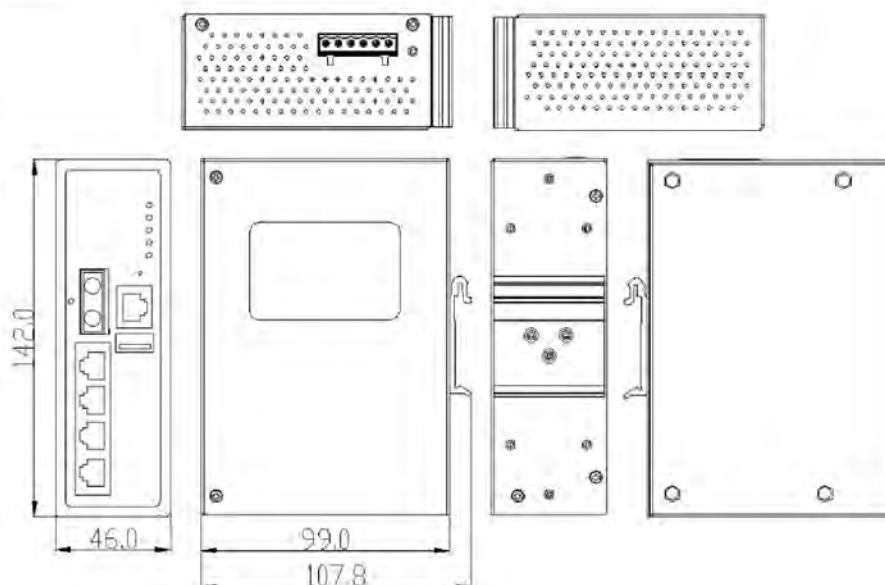
- ▶ Supports 4*10/100Tx IEEE 802.3at/af Compliant with 30W/Port, and 1*100Fx (SC/ST) Fiber Port
- ▶ Fiber Supports: Multi-Mode in 2Km; Single-Mode in 30Km
- ▶ Network Redundancy Support: RSTP/MSTP, and TG.8032 ERPS (Recovery Time <50ms)
- ▶ Configuration: Web Console, Telnet, CLI Command
- ▶ Supports IGMP v1/v2, up to 256 Groups
- ▶ Supports QoS (IEEE802.1p) and CoS/ToS
- ▶ Supports IEEE802.1Q VLAN, SNMP v1/v2c
- ▶ PoE Ping Alarm Function for PoE Ports Power Recycle
- ▶ System Warning Setting for Automatic Warning through E-Mail
- ▶ Redundant Power Input Design: 48~55VDC
- ▶ Housing: Metal IP30 Rated; DIN-Rail and Wall Mount Support
- ▶ Operating Temperature Range: STD: -10° to 70°C, EOT: -40° to 75°C
- ▶ 5-Year Warranty

INTRODUCTION

Antaira's LMP-0501 series is a 5-port industrial PoE+ managed Ethernet switch that is embedded with 4*10/100Tx Ethernet ports that support IEEE802.3at/af for a maximum of 30 watts per port, and 1*100Fx (SC or ST connector) fiber port with optional versions for multi-mode (2Km) and single-mode (30Km).

LMP-0501 series is a fully manageable industrial Ethernet switch pre-loaded with standard Layer 2 network management software and supports a user-friendly web console interface for easy configuration. This product series is IP30 rated, DIN-rail mountable, and has two wide operating temperature models for either a standard temperature range (STD: -10°C to 70°C) or an extended temperature range (EOT: -40°C to 75°C). It also provides high EFT and ESD protection for any industrial networking application within factory automation, ITS, power/utility, water wastewater, and any other outdoor or harsh environment.

DIMENSIONS



SPECIFICATIONS

Technology

IEEE 802.3 10Tx Ethernet
 IEEE 802.3u 100Tx Fast Ethernet
 IEEE 802.3x Flow Control for Full Duplex
 IEEE 802.3at/af PoE (Power-over-Ethernet)
 IEEE 802.1d STP (Spanning Tree Protocol)
 IEEE 802.1w RSTP (Rapid Spanning Tree Protocol)
 IEEE 802.1s MSTP (Multiple Spanning Tree Protocol)
 ITU-TG.8032 / Y.1344 ERPS (Ethernet Ring Protection Switch)
 IEEE 802.1q Virtual LANs (VLAN)
 IEEE 802.1x Network Authentication
 IEEE 802.1ad Stacked VLAN, Q-in-Q
 IEEE 802.1p QoS/CoS Protocol for Traffic Prioritization

Standards

Switch Properties

Protocol	CSMA/CD, IGMPv1/v2, SNMPv1/v2, TFTP, SNTP, SMTP, RARP, Syslog
Configuration	Web Console, Telnet, CLI
Transfer Rate	14,880pps for 10Base-T Ethernet port 148,880pps for 100Base-T Fast Ethernet port
Packet Buffer	1 Mbits
MAC Table	8K
Jumbo Frame	-
Flow Control	IEEE 802.3x for full duplex mode, back pressure for half duplex mode
VLAN Group	0~4094
IGMP Group	Up to 256 Groups

Port Interface

Ethernet RJ45 Port	4*10/100BaseTx (PSE: 30W/Port) auto negotiation speed, Full/Half duplex mode, and auto MDI/MDI-X connection
Fiber Port	1*100Fx (SC or ST type connector); Multi-mode 2Km, Single-mode 30Km
Wavelength	1310nm (Multi or Single Mode)
PoE Port Pin Assignment	V+, V+, V-, V-, for pin 1, 2, 3, 6 (Endspan, MDI Alternative A)
RS232 Serial Console	1*RS232 in RJ45 connector with console cable, 115.2Kbps, 8, N, 1
Configuration Backup	1*USB 2.0

Protection

Overload Current	Present
Power Reverse Polarity	Present
CPU Watch Dog	Present

Network Cable

10Base-T: 2-pair UTP/STP Cat. 3, 4, 5 cable;
 100Base-TX: 2-pair UTP/STP Cat. 5 cable.
 EIA/TIA-568 100-ohm (100m)

Mechanical Characteristics

LED Indicator	Per Unit: Power 1 & 2 (Green), Fault (Red) PoE: Feeding Power (Green)
Housing	Metal, IP30 rated
Dimensions	46 x 142 x 99 mm
Weight	Unit: 1.5 lbs; Shipping: 2.3 lbs
Mounting	DIN-Rail; Wall-mount (optional)
Power Requirement	
Input Voltage	48~55VDC Redundant Input
Power Connection	1 removable 6-contact terminal block
PoE Power Output	25W @ 48VDC (per PoE port); 30W @ 51~55VDC (per PoE port)
Power Consumption	10 Watts (no PD included); 130 Watts (Fully loaded)

Environmental Limits

Operating Temperature	STD: -10° to 70°C EOT: -40° to 75°C
Storage Temperature	-40°~85°C
Ambient Relative Humidity	5 to 95%, (non-condensing)

Regulatory Approvals

EMI	FCC Class A
EMS	EN61000-4-2,3,4,5,6,8 EN61000-6-2,4
Free Fall	IEC60068-2-32
Shock	IEC60068-2-27
Vibration	IEC60068-2-6
Green	RoHS Compliant
Certifications	FCC, CE, UL 61010-1, UL 61010-2-201
Warranty	5 Years

ORDERING INFO

LMP-0501-M	5-Port Industrial PoE+ Managed Ethernet Switch with 4*10/100Tx (30W/Port) + 1*100Fx Fiber port, SC connector with Multi-mode in 2Km
LMP-0501-M-T	5-Port Industrial PoE+ Managed Ethernet Switch with 4*10/100Tx (30W/Port) + 1*100Fx Fiber port, SC connector with Multi-mode in 2Km; EOT -40° to 75°C
LMP-0501-ST-M	5-Port Industrial PoE+ Managed Ethernet Switch with 4*10/100Tx (30W/Port) + 1*100Fx Fiber port, ST connector with Multi-mode in 2Km
LMP-0501-ST-M-T	5-Port Industrial PoE+ Managed Ethernet Switch with 4*10/100Tx (30W/Port) + 1*100Fx Fiber port, ST connector with Multi-mode in 2Km; EOT -40° to 75°C
LNP-0501-S3	5-Port Industrial PoE+ Managed Ethernet Switch with 4*10/100Tx (30W/Port) + 1*100Fx Fiber port, SC connector with Single-mode in 30Km
LMP-0501-S3-T	5-Port Industrial PoE+ Managed Ethernet Switch with 4*10/100Tx (30W/Port) + 1*100Fx Fiber port, SC connector with Multi-mode in 2Km; EOT -40° to 75°C
LMP-0501-ST-S3	5-Port Industrial PoE+ Managed Ethernet Switch with 4*10/100Tx (30W/Port) + 1*100Fx Fiber port, ST connector with Single-mode 30Km

LMP-0501-ST-S3-T 5-Port Industrial PoE+ Managed Ethernet Switch with 4*10/100Tx (30W/Port) + 1*100Fx Fiber port, ST connector with Single-mode 30Km; EOT -40° to 75°C

Optional Accessories

MDR-40-48	40W Industrial DIN-Rail Power Supply, 48VDC
MDR-60-48	60W Industrial DIN-Rail Power Supply, 48VDC
DR-75-48	75W Industrial DIN-Rail Power Supply, 48VDC
MDR-100-48	100W Industrial DIN-Rail Power Supply, 48VDC
DR-120-48	120W Industrial DIN-Rail Power Supply, 48VDC
SDR-240-48	240W Industrial DIN-Rail Power Supply, 48VDC