LMP-0501 Series

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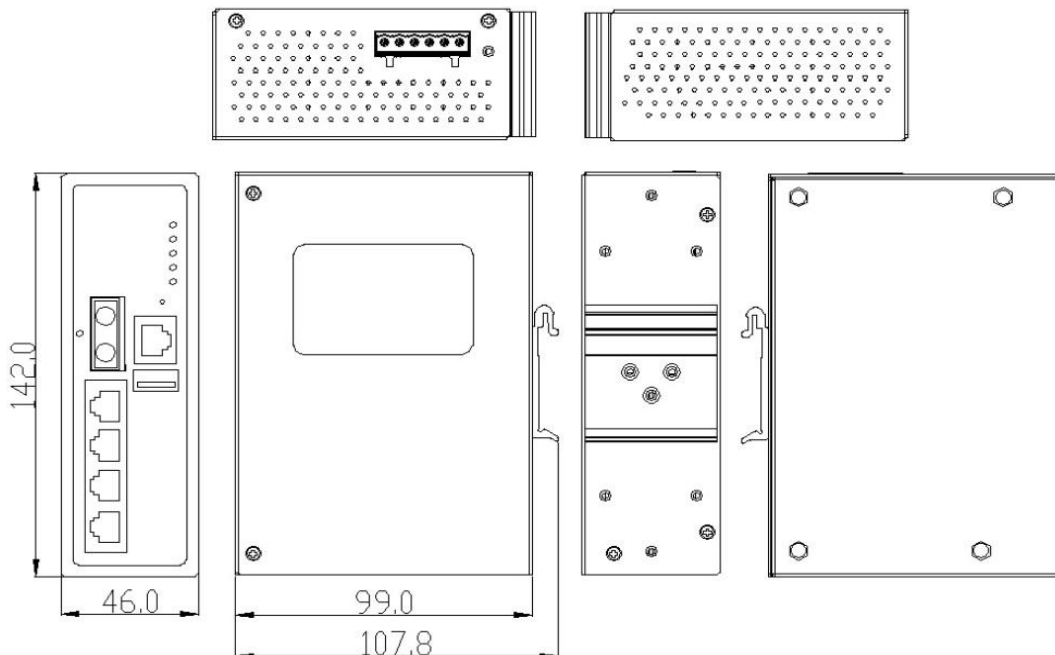
Features

► 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 - STD: -10~70C & EOT: - 40~75C
► 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

142.0

46.0

99.0

107.8

SPECIFICATIONS

Technology

Standards	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

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 148,8800pps 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
Dimension	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°C ~ 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, UL508 (Pending)
Warranty	5 Years

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