

PRELIMINARY



MLB-E4103-5-P / MLB-E4104-5-P-F

Industrial 10 / 100M Ethernet Switch

5-port IEEE802.3at / af PoE



MLiS MLB PoE series are 5-port, unmanaged full 10 / 100M Ethernet switches compliant with both IEEE 802.3af and IEEE 802.3at PoE standards and delivering up to 30 watts power per port along with data on standard Ethernet cabling. The switches can be used to power IEEE 802.3af / at standard devices (PD), which eliminates the need for additional wiring and ease the deployment for applications to reach power source.

Unmanaged PoE Industrial Ethernet Switches

Industrial
Design

Full
10 / 100M

-40 ~
+75°C

802.3at
PoE+

Features

- Full 10 / 100M Ethernet ports
- SFP support 100FX or 1000BaseF (SX / LX / LH) (MLB-E4104-5-P-F)
- IEEE 802.3af PoE & IEEE 802.3at PoE + complaint
- 9K Jumbo frames
- L2 wire-speed switching engine
- 2K MAC forwarding addresses
- Industrial design : Fanless, wide operating temperature range (-40 to +75°C), dual power input (12 ~ 58 VDC, dual input), IP30, DIN-Rail and Wall mounting option

Specifications

Ethernet		Indicators	
Operating mode	Store and forward L2 wire-speed / non-blocking switching engine	Power Status indication	Indication of power input status
MAC addresses	2K	Ethernet port indication	Link & Speed
Jumbo frames	9K Bytes	PoE power indication	PoE power status indication
Copper RJ45 Ports	10 / 100 / 1000 Mbps speed auto-negotiation; MDI / MDIX Auto-crossover	Environmental and Compliances	
SFP (pluggable) Ports	100 / 1000BaseSFP slot	Operating temperature range	-40 to +75°C (cold startup at -40°C)
Fiber port connector	LC typically for fiber	Storage temperature range	-40 to +85 °C
Flow control	IEEE 802.3x (Full Duplex) and Back-Pressure (Half Duplex)	Humidity	5 to 95% RH (non-condensing)
QoS	IEEE 802.1p, 4 queues per port	Vibration, shock & freefall	IEC60068-2-6, -27, -32
Traffic Shaper	Port-based Port shaping	Certification compliance	CE / FCC / UL-508; EN-50121-4
Storm Control	Multicast / Broadcast / Flooding Storm Control per system basis enable / disable	Electrical safety	UL508 / CSA C22, EN61010-1, CE
PoE	IEEE 802.3at PoE PSE (IAS-PL305, IAS-PL305-F)	EMC	FCC Part 15 Subpart B Class A, CISPR 22 (EN55022) Class A IEC61000-4-2, -3, -4, -5, -6 (Level 3)
Power		RoHS and WEEE	RoHS (Pb free) and WEEE compliant
Power input	Redundant Input Terminals Reverse power protection	MTBF	> 25 years
Input voltage range	12-58 VDC	Mechanical	
		Ingress protection	IP30
		Dimension	139mm (H) x 29mm (W) x 106mm (D) (without DIN rail clip)
		Weight	375g
		Installation option	DIN-Rail mounting Wall mounting



MLiS PoE Series Ordering Information

Available Models	Description	Gigabit Ethernet Port		
		10 / 100 / 1000BaseT(X) None PoE	10 / 100 / 1000BaseT(X) PoE	100 / 1000BaseSFP
MLB-E4103-5-P	Industrial 5-port 10 / 100M PoE Ethernet Switch, IEEE 802.3at	1	4 (at / af)	
MLB-E4103-5-P-F	Industrial 5-port 10 / 100M PoE Ethernet Switch, IEEE 802.3at		4 (at / af)	1

Accessories (Optional)

Available Models	Description	Gigabit Ethernet Port		
		10 / 100 / 1000BaseT(X) None PoE	10 / 100 / 1000BaseT(X) PoE	100 / 1000BaseSFP
TSFPGSX-T	1000Base-SX multi-mode transceiver 550m, -40 ~ 85c			1
TSFPGSX2-T	1000Base-SX+ multi-mode transceiver 2km, -40 ~ 85°C			1
TSFPGXLX10-T	1000Base-LX single-mode transceiver 10Km, -40 ~ 85c			1
TSFPGHLHX30-T	1000Base-LHX single-mode transceiver 30km, -40 ~ 85°C			1

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Make Life Safe and Simple

Product specifications are subject to change without notice. Please contact us for further details.

