

PRELIMINARY



# MLB-E4105-8 / MLB-E4106-8-F

## Industrial 10 / 100M Ethernet Switch

8-Port unmanaged



MLiS MLB-E4105-8 / MLB-E4106-8-F provides 8 10 / 100M Ethernet ports to fulfill the needs of the rapid growth of communication traffic in industrial network. MLiS unmanaged series are designed for supporting standard industrial applications without complex setup to make the network truly plug-and-play. With the QoS and traffic storm control, MLiS series switches are able to provide the high reliability user experience in the complex network.

### Unmanaged Industrial Ethernet Switches

#### Features

Full  
10 / 100M

-40 ~ 75°C

Industrial  
Design

- Provide 8 10 / 100M Copper ports (MLB-E4105-8)
- Provide 8 10 / 100M Copper ports plus 2 ports 100FX or 1000BaseF (SX / LX / LH) (MLB-E4106-8-F)
- IEEE 802.3x flow control & back-pressure
- 9K Jumbo frames
- L2 wire-speed switching engine
- 8K MAC forwarding addresses
- Queues per port : 4
- Support 802.1p & TOS / DS QoS
- Multicast / Broadcast / Flooding Storm Control
- Fanless & wide operating temperature range (-40 to +75°C)
- Dual power input (12 ~ 58 VDC) & reverse power protection
- IP30
- DIN-Rail and wall mounting option

## Specifications

Ethernet		Environmental and Compliances	Link & Speed
Operating mode	Store and forward L2 wire-speed / non-blocking switching engine	Operating temperature range	-40 to +75°C (cold startup at -40°C)
MAC addresses	8K	Storage temperature range	-40 to +85 °C
Jumbo frames	9K Bytes	Humidity	5 to 95% RH (non-condensing)
Copper RJ45 Ports	10 / 100 / 1000 Mbps speed auto-negotiation; MDI / MDIX Auto-crossover	Vibration, shock & freefall	IEC60068-2-6, -27, -32
SFP (pluggable) Ports	100 / 1000BaseSFP slot	Certification compliance	CE / FCC / UL-508; EN-50121-4
Fiber port connector	LC typically for fiber (depends on module)	Electrical safety EMC	UL508 / CSA C22, EN61010-1, CE FCC Part 15, CISPR 22 (EN55022) Class A IEC61000-4-2, -3, -4, -5, -6 (Level 3)
Flow control	IEEE 802.3x (Full Duplex) and Back-Pressure (Half Duplex)	RoHS and WEEE	RoHS (Pb free) and WEEE compliant
QoS	IEEE 802.1p	MTBF	> 25 years
Number of queues	4	Mechanical	
Traffic Shaper	Port-based Port shaping	Ingress protection	IP30
Storm Control	Multicast / Broadcast / Flooding Storm Control per system basis enable / disable	Dimension	117.8mm (H) x 39mm (W) x 96.9mm (D) ( without DIN rail clip)
Power		Weight	395g
Power input	Redundant Input Terminals; Reverse power protection	Installation option	DIN-Rail mounting; Wall mounting
Input voltage range	12-58 VDC		
Indicators			
Power Status indication	Indication of power input status		
Ethernet port indication	Link & Speed		



## MLiS unmanaged series information

Available Models	Description	Gigabit Ethernet Port	
		10 / 100 / 1000BaseT(X)	100 / 1000BaseSFP
MLB-E4105-8	Industrial 8-port 10 / 100M Unmanaged Ethernet Switch	8	
MLB-E4106-8-F	Industrial 8-port 10 / 100M Unmanaged Ethernet Switch	6	2

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