



# MLB-E4108-5-G & MLB-E4109-5-G-F

## 5-Port Lite-managed Switch

➔ DATASHEET





# MLB-E4108-5-G

# MLB-E4109-5-G-F

## 5-Port Lite-managed Switch

MLB-E4108-5-G & MLB-E4109-5-G-F Ethernet Switch series provides different combination in Gigabit/Fast Ethernet and fiber connections for optional. It fulfills the needs of the rapid growth of communication traffic in the industrial network. MLB series is designed for supporting standard industrial applications without complex setup to make the network truly plug-and-play.

Port to  
Port  
Isolation

-40 ~ +75°C

Advanced  
QoS

Recovery  
< 20 ms

### Features

- IEEE 802.3x flow control & back-pressure
- 9K jumbo frames
- L2 wire-speed switching engine
- 2K MAC forwarding addresses
- Queues per port: 4
- Supports 802.1p & TOS/DS QoS
- Multicast/Broadcast/Flooding Storm Control
- Fanless & wide operating temperature range (-40~+75°C)
- Dual power input (12~58VDC) & reverse power protection
- Hi-POT 1.5 KV
- IP30
- DIN-rail and wall mounting option
- Only MLB-E4108-5-G & MLB-E4109-5-G-F models support Gigabit

## MLB-E4108-5-G/E4109-5-G-F 5-Port Lite-managed Switch

### Ethernet

Operating Mode	Store and forward L2 wire-speed/non-blocking switching engine
MAC Addresses	2K (Gigabit Ethernet)/1K (Fast Ethernet)
Jumbo Frames	9K Bytes
Copper RJ45 Ports	Gigabit Ethernet Switch: 10/100/1000 Mbps speed auto-negotiation; MDI/MDIX auto-crossover Fast Ethernet Switch: 10/100M Copper ports speed auto-negotiation; MDI/MDIX auto-crossover
Ethernet Isolation	1500 VRMS 1 minute
Ethernet Port Indication	Link & Speed

### Power

Power Input	Redundant input terminals; reverse power protection
Input Voltage Range	12~58VDC

### Indicators

Power Status Indication	Indication of power input status
EMC	FCC Part 15, CISPR 22 (EN55022) class A IEC61000-4-2, -3, -4, -5, -6 (level 3)
RoHS and WEEE	RoHS (Pb free) and WEEE compliant
MTBF	> 25 years

### Environmental & Compliances

Operating Temperature Range	-40~+75°C (cold startup at -40°C)
Storage Temperature Range	-40~+85 °C
Humidity	5~95% (non-condensing)
Vibration, Shock & Freefall	Vibration: IEC60068-2-6 Shock: IEC60068-2-27 Freefall: IEC60068-2-32
Certification Compliance	CE/FCC/UL-508; EN-50121-4
Electrical Safety	UL508/CSA C22, EN61010-1, CE
SFP Ports	Gigabit Ethernet Fiber Switch: 100/1000 base SFP slot Fast Ethernet Fiber Switch: 100 Base SFP slot
Fiber Port Connector	LC typically for fiber (depends on module)
Flow Control	IEEE 802.3x (full duplex) & backpressure (half duplex)
Fault Contact	Power alarm relay output (MLB-E4101-5)
QoS	IEEE 802.1p
Number of Queues	4
Traffic Shaper	Port-based port shaping
Storm Control	Multicast/Broadcast/Flooding Storm Control per system basis enable/disable

### Mechanical

Ingress Protection	IP30
Installation Option	DIN-rail mounting Wall mounting
LLDP	IEEE 802.1ab Link Layer Discovery Protocol (LLDP)
Dimension (L)x(W)x(H)	112.2x29.1x89.4mm (without DIN rail clip)
Weight	295g