



Industrial Networking Solutions

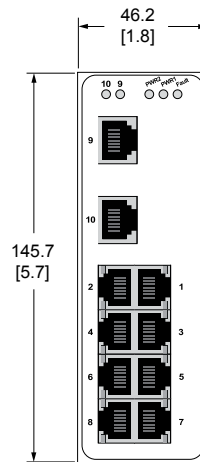
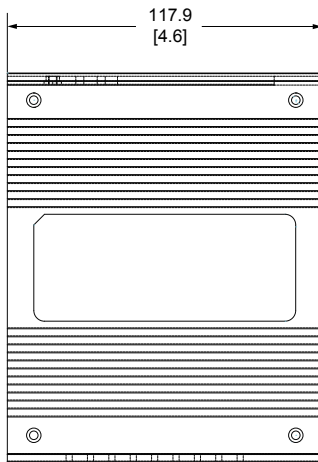
Industry Specific Ethernet Switches



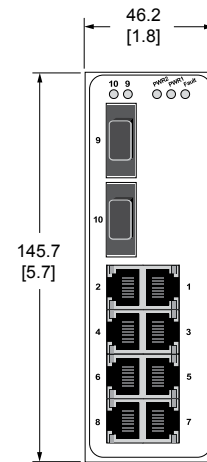
EN50155 Railway Unmanaged Switches | DIN-Rail/Wall Mount | Metal Housing | IP30 Rating



Unmanaged Fast-Ethernet Switches, Gigabit Uplink					
Part Number [MFG #]	10/100 RJ45 Ports	10/100/1000 RJ45 Ports	100 Fiber Ports	1000 Fiber Ports	Features
E45UM-10-2M [EH7310-G]	8	2	N/A	N/A	Industrial EMC Protection Railway Certified MIL-STD Ruggedized Redundant Power Input Relay Output
E45UM-10-2FMM [EH7310-G-2FM]	8	N/A	N/A	2 (m)	
E45UM-10-2FSM [EH7310-G-2FS]	8	N/A	N/A	2 (s)	
E45UM-10-2FM [EH7310-2FM]	8	N/A	2 (m)	N/A	
E45UM-10-2FS [EH7310-2FS]	8	N/A	2 (s)	N/A	



E45UM-10-2M



**E45UM-10-2FMM
E45UM-10-2FSM
E45UM-10-2FM
E45UM-10-2FS**

Feature Highlights:

- Extended Operating Temperature Range: -40 ~ 80 °C (-40 ~ 176 °F)
- No rotating fans or mechanical parts inside ensure the highest reliability
- Wide Power Supply Options: Redundant Dual Inputs (12/24/48 VDC)
- Failure to Trigger Fault Output Relay: Relay output warning for power failure and break alarm. Normally Closed
- Support up to 8K MAC addresses with automatic learning and aging.
- Transmits 802.1Q VLAN and 802.1p priority tagged message transparently
- Smart broadcast storm protection



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Specifications & Approvals



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Technology	
Standards	IEEE 802.3 10-Base-T IEEE 802.3u 100Base-TX IEEE 802.3 100Base-FX IEEE 802.3 1000Base-SX, LX
Switching Latency	5 µS
Flow Control	IEEE 802.3x Flow Control and Back-pressure
Processing type	Store-and-Forward
Interfaces	
RJ45 Ports	10/100BaseT(X), Auto MDI/MDI-X 10/100/1000BaseT(X), Auto MDI/MDI-X (Uplink)
Fiber Optics Ports	100BaseFX ports (SC connector) (Uplink) 1000BaseFX ports (SC connector) (Uplink)
LED Indicators	LNK/ACT(Steady green-Link up/ Blinking-data transmitting & receiving) PWR1(Green), PWR2(Green), Fault(Red)
Power Management	
Dual Input Voltage	12/24/48 VDC
Dual Input Current	0.49A @ 24VDC
Overload Current Protection	0.8A @ 12VDC
Connector	Removable dual 3-pin Terminal Block for power input
Reverse Polarity Protection	Present
Consumption	11.875 Watts
Environmental Limits	
Operating Temperature	-40°C~80°C (-40°F~176°F)
Storage Temperature	-40°C~85°C (-40°F~185°F)
Ambient Relative Humidity	5%~95%, 55°C (Non-condensing)

Regulatory Approvals				
Safety	UL60950-1, CSA C222, No.60950-1-07, CB			
EMI	FCC part 15, CISPR (EN55032) class A			
EMC	EN50121-3-2, EN60068-2-1, EN60068-2-2, EN61373			
EMS Test	Item		Value	Level
EN61000-4-2	ESD	Contact Discharge Air Discharge	8 KV, Criterion A 15 KV, Criterion A	4 4
EN61000-4-3	RS	Enclosure ports	10 V/m (80-1000 MHz), Criterion A	3
EN61000-4-4	EFT	Power Line	2 KV, Criterion B	3
EN61000-4-5	Surge	Line to earth Power Line	1 KV, Criterion B 2 KV, Criterion B	2 3
EN61000-4-6	CS	Line to earth Power Line	3 V (0.15 - 80 MHz), Criterion A 10 V (0.15 - 80 MHz), Criterion B	3 3
Shock	MIL-STD-810F			
Drop	MIL-STD-810F			
Vibration	MIL-STD-810F			
MTBF	201,976 hrs (23.06 Years) (Data base: MIL-HDBK-217F, GB 25°C)			
Warranty	5 Years			