



Industrial Networking Solutions

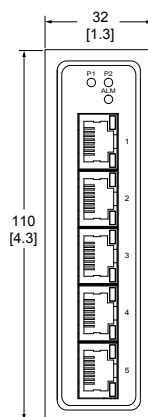
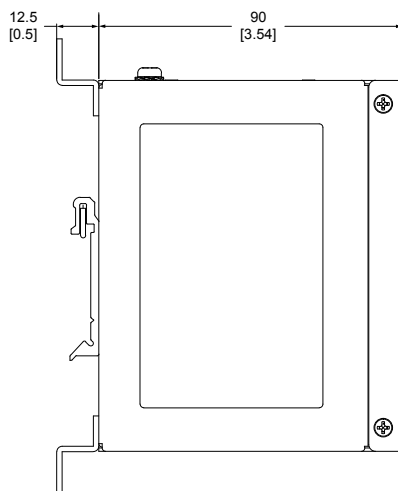
Harsh Environments Switches



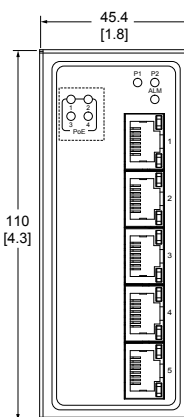
Unmanaged Harsh Environments Switches | DIN-Rail/Wall Mount | Metal Housing | IP30 Rating



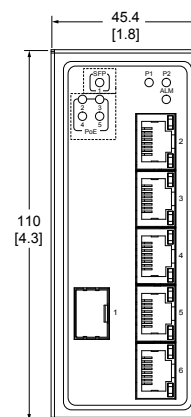
Unmanaged Gigabit Switches					
Part Number [MFG #]	10/100/1000 RJ45 Ports	1000 SFP Slots	Max PoE Ports	Housing Material	Features
E45UM-5M-EX [EHG7305]	5	N/A	N/A	SECC	Atex Zone 2 Certified Industrial EMC Protection MIL-STD Ruggedized Redundant Power Input Relay Output Railway Certified (EN50155)
E45UM-6M-1SFP-EX [EHG7306-1SFP]	5	1	N/A	Aluminum	
E45UM-7M-2SFP-EX [EHG7307-2SFP]	5	2	N/A		
Unmanaged Gigabit Switches with PoE					
E45UM-5M-4POE-EX [EHG7305-4POE]	5	N/A	4	Aluminum	Atex Zone 2 Certified Industrial EMC Protection MIL-STD Ruggedized Redundant Power Input Relay Output Railway Certified (EN50155)
E45UM-6M-4POE-1SFP-EX [EHG7306-4POE-1SFP]	5	1	4		
E45UM-7M-4POE-2SFP-EX [EHG7307-4POE-2SFP]	5	2	4		



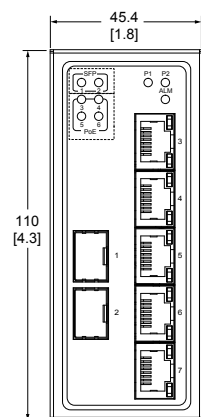
E45UM-5M-EX



E45UM-5M-4POE-EX



E45UM-6M-1SFP-EX
E45UM-6M-4POE-1SFP-EX



E45UM-7M-2SFP-EX
E45UM-7M-4POE-2SFP-EX

Feature Highlights:

- Up to 5 10/100/1000 BASE-T(X) ports and 2 1000 BASE-X SFP ports
- Up to 4 802.3af or 802.3at complaint PoE ports
- Support 10K Jumbo frames
- Supports 802.3az Energy Efficient Ethernet for power savings
- Works from -40°C~70°C
- Failed power input alarm contact
- Certified by UL 61010-2-201 and UL C1D2/ATEX Zone 2



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Specifications & Approvals



Unmanaged Harsh Environments Switches | DIN-Rail/Wall Mount | Metal Housing | IP30 Rating

Switch Properties	
Processing Scheme	Store-and-Forward
MAC Address Table	8096
Jumbo Frame	10K Bytes
Packet Buffer	1 Mbits

Ethernet	
Compliance	IEEE802.3 for 10BASE-T IEEE802.3u for 100BASE-T(X) and 100BASE-FX IEEE 802.3ab for 1000BASE-T IEEE 802.3z for 1000BASE-X IEEE 802.1Q for VLAN Tagging IEEE 802.1p for Class of Service IEEE 802.3x Flow Control IEEE 802.3af / 802.3at for Power-over-Ethernet IEEE 802.3az for Energy Efficient Ethernet
Flow Control	Back pressure and pause frame-based flow control schemes
LLDP	Forwarding
Transmission Rate	10/100/1000 Mbps (the second SFP port is 1000 Mbps only)
Auto MDI/MDI-X	Yes

Environmental Limits	
Operating Temperature	-40°C ~ 70°C (-40°F ~ 158°F)
Storage Temperature	-40°C ~ 85°C (-40°F ~ 185°F)
Ambient Relative Humidity	5%~95%, 55°C (non-condensing)

Regulatory Approvals				
Safety	UL 61010-2-201, UL C1D2/ATEX Zone 2			
EMC	EN 55032 EN 61000-6-4 EN 55024 EN 61000-6-2			
EMS Test	Item		Value	Level
IEC 61000-4-2	ESD	Contact Discharge	±8KV	4
		Air Discharge	±15KV	4
IEC 61000-4-3	RS	80-1000MHz	10(V/m)	3
		1.4-2.0GHz	3 (V/m)	
IEC 61000-4-4	EFT	AC Power Port	±2.0KV	3
		DC Power Port	±2.0KV	3
IEC 61000-4-5	Surge	Signal Port	±2.0KV	4
		AC Power Port	Line-to Line±1.0KV	3
IEC 61000-4-5	Surge	AC Power Port	Line-to Earth±2.0KV	3
		DC Power Port	Line-to Line±1.0KV	3
IEC 61000-4-5	Surge	DC Power Port	Line-to Earth±2.0KV	3
		Signal Port	Line-to Earth±2.0KV	3
IEC 61000-4-6	CS	Conducted	10 Vrms	3
IEC 61000-4-8	PFMF	Enclosure	10 V/m	3
IEC 61000-4-11	DIP	AC Power Port	-	-
Shock	MIL-STD-810F Method 516.5			
Drop	MIL-STD-810F Method 516.5			
Vibration	MIL-STD-810F Method 514.5 C-1 & C-2			
RoHS	Yes			
Warranty	5 years			

Power Management						
Part Number	E45UM-5M-EX	E45UM-5M-4POE-EX	E45UM-6M-1SFP-EX	E45UM-6M-4POE-1SFP-EX	E45UM-7M-2SFP-EX	E45UM-7M-4POE-2SFP-EX
Input Voltage	12-52 VDC*					
Input Current (System)	0.5A @ 12 V		0.6A @ 12V			
Max. Power Consumption (System)	6 W		7.2 W			
Input Current (with PoE)	-	2.6A @ 51 V	-	2.6A @ 51 V	-	2.6A @ 51 V
Max. Power Consumption (with PoE)	-	130 W	-	130 W	-	130 W
Relay Output	24 V / 0.5A					
Connector	Terminal Block					

* 802.3af PoE output starts from 43 VDC input and 802.3at output starts from 51 VDC input.