



Industrial Networking Solutions

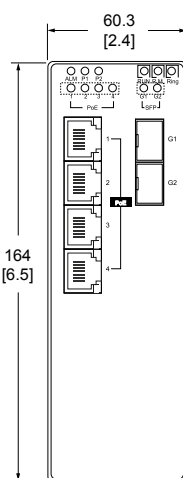
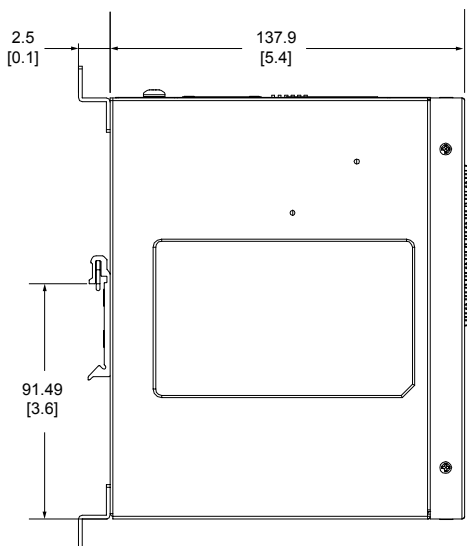
Harsh Environments Switches



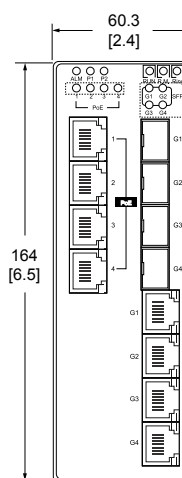
Layer-2 Managed DIN-Rail Switches | DIN-Rail/Wall Mount | Metal Housing | IP30 Rating



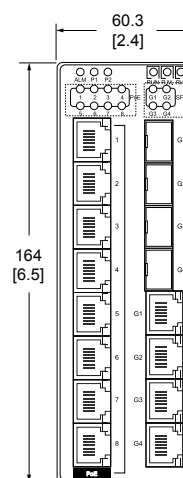
Industrial Managed Fast-Ethernet Switches					
Part Number [MFG #]	10/100 RJ45 Ports	10/100/1000 RJ45 Ports	10/100/1000 SFP Slots	Max PoE Ports	Features
E45PNMS-6-2SFP [EH7506-2SFP]	4	N/A	2	N/A	Industrial EMC Protection Profinet & Ethernet/IP Ready Profinet CC-B v2.33 Certified IEEE1588 Precision Timing Redundant Ring Redundant Power Input Relay Output NEMA TS-2 Certified
E45PNMS-8-4M-4SFP [EH7508-4G-4SFP]	4	(4)	(4)	N/A	
E45PNMS-12-4M-4SFP [EH7512-4G-4SFP]	8	(4)	(4)	N/A	
Industrial Managed Fast-Ethernet Switches with PoE					
E45PNMS-6-4POE-2SFP [EH7506-4POE-2SFP]	4	N/A	2	4	Industrial EMC Protection Profinet & Ethernet/IP Ready Profinet CC-B v2.33 Certified IEEE1588 Precision Timing Redundant Ring Redundant Power Input Relay Output NEMA TS-2 Certified
E45PNMS-8-4POE-4M-4SFP [EH7508-4G-4POE-4SFP]	4	(4)	(4)	4	
E45PNMS-12-4POE-4M-4SFP [EH7512-4G-4POE-4SFP]	8	(4)	(4)	4	
E45PNMS-12-8POE-4M-4SFP [EH7512-4G-8POE-4SFP]	8	(4)	(4)	8	



E45PNMS-6-**



E45PNMS-8-**



E45PNMS-12-**

Feature Highlights:

- Up to 8 10/100 BASE-T(X) ports and 4 10/100/1000 BASE-T(X) Combo ports
- Up to 8 802.3af or 802.3at compliant PoE ports
- ERPS Ring (recovery time < 20ms @ 40 switches), STP/RSTP for network redundancy
- Remote management over Web browser, Telnet console, serial console, and Windows Utility



Industrial Networking Solutions

Specifications & Approvals



Layer-2 Managed DIN-Rail Switches | DIN-Rail/Wall Mount | Metal Housing | IP30 Rating

Switch Properties	
Priority Queues	8
Max. Number of Available VLANs	256
VLAN ID Range	VID 1 to 4094
Static IGMP Groups	256
Dynamic IGMP Groups	256
MAC Table Size	16K
Packet Buffer Size	12 Mbit
Interface	
RJ45 Ports	10/100/1000BASE-T(X) or 10/100 BASE-T(X) auto negotiation speed
Fiber Ports	100BASE-FX / 1000BASE-X SFP slot
LED Indicators	PWR1, PWR2, Alarm, Run, Ring, Ring Master, RJ45 Link/Speed, SFP Link, PoE
Console	RS232 (RJ45 connector)
Relay Output	2 relay outputs with current carrying capacity of 2A @30VDC
DIP Switches	Ring Control
Button	Reset Button
Power Management	
Input Voltage	9-48 VDC or 18~30VAC for Non-PoE models 45-57 VDC for 802.3af mode 51-57 VDC for 802.3at mode
Input Current	Max. 1.5A @ 18VAC Max. 2.0A @ 9VDC (without PD) Max. 3.2A @ 45VDC (Support up to 8 ports at 15.4W per PoE port) Max. 5.5A @ 51VDC (Support up to 8 ports at 30W per PoE port)
Connector	Removable 5-pin Terminal Block for power input
Reverse Polarity Protection	Present (DC only)
Environmental Limits	
Operating Temperature	-20°C~70°C (-4°F~158°F)
Storage Temperature	-40°C~85°C (-40°F~185°F)
Ambient Relative Humidity	5%~95% non-condensing

Technology				
Standards	IEEE802.3af / 802.3at for Power-over-Ethernet IEEE802.3 for 10BASE-T IEEE802.3u for 100BASE-T(X) and 100BASE-FX IEEE802.3ab for 1000BASE-T(X) IEEE802.3z for 1000BASE-X IEEE802.3x for Flow Control IEEE802.1D-2004 for Spanning Tree Protocol IEEE802.1w for Rapid STP IEEE802.1Q for VLAN Tagging IEEE802.1p for Class of Service IEEE8021X for Authentication IEEE802.3ad for Port Trunk with LACP			
Protocols	IGMPv1/v2, GVRP, SNMPv1/v2c/v3, ICMP, ARP, Telnet, DHCP Client, TFTP, SNTP, SMTP, RMON, HTTP, Syslog, PROFINET, Modbus/TCP/ Ethernet/IP, LLDP,IEEE 1588 PTP V2, IPv4, NTP Client, EAP, RADIUS			
MIB	802.1x MIB II, IF-MIB, SNMPv2 MIB, BRIDGE-MIB, RMON MIB Group 1,2,3,9			
Flow Control	IEEE802.3x for Flow Control, back pressure flow control			
Regulatory Approvals				
Safety	UL60950-1 2nd Ed. /CSA C22.2 No.60950-1-07 2nd Ed. / EN60950-1 / CB			
EMC	FCC Part 15, Subpart B, Class A / EN 61000-6-4:2007+A1:2011 / EN 61000-6-2:2005			
EMS Test	Item		Value	Level
IEC 61000-4-2	ESD	Contact Discharge Air Discharge	±6KV ±8KV	3 3
IEC 61000-4-3	RS	Radiated (Enclosure)	10 (V/m)	3
IEC 61000-4-4	EFT	AC Power Port DC Power Port Signal Port	±2.0 KV ±2.0 KV ±1.0 KV	3 3 3
IEC 61000-4-5	Surge	AC Power Port AC Power Port DC Power Port DC Power Port Signal Port	Line-to-Line ±1.0KV Line-to-Earth ±2.0KV Line-to-Line ±1.0KV Line-to-Earth ±2.0KV Line-to-Earth ±1.0KV	3 3 3 3 3
IEC 61000-4-6	CS	Conducted (Enclosure)	10 Vrms	3
IEC 61000-4-8	PFMF	Enclosure	30(A/m)	4
IEC 61000-4-11	DIP	AC Power Port	-	-
Shock	IEC 60068-2-27			
Drop	IEC 60068-2-32			
Vibration	IEC 60068-2-64			
RoHS	Yes			
MTBF	11 Years			
Warranty	5 years			