

Industrial PoE Managed Switches

EH7520 Series



Product Description

The EH7520 Series is a highly reliable and fault-tolerant Industrial Managed PoE Ethernet Switch. It equips up to sixteen 10/100BASE-T(X) RJ-45 ports and up to four 10/100/1000BASE-T(X)/FX RJ-45 and SFP ports. With its high performance switching capacity, EH7520 Series provides network redundant self-recovery mechanism is less than 20ms on full load which allows you to scheme a reliable Ethernet network by building a redundant ring topology as your back-up solution. With a Multifunctional web dashboard, EH7520 Series offers intelligent features such as Quality of service (QoS), Virtual LAN (VLAN), IGMP, Port mirroring and security.

Feature Highlights

- Up to 16 10/100 BASE-T(X) ports and 4 10/100/1000 BASE-T(X) Combo ports
- Up to 8 802.3af or 802.3at complaint 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
- Provide Generic Station Description file (GSD v2.1) for integration with SIMATIC Step 7
- Support for PROFINET I/O parameters, I/O cyclic data, DCP, DHCP and PROFINET Real-Time
- Profinet CC-B v2.33 certified & Ethernet/IP Ready

The EH7520 Series is designed for Industrial rugged applications. It equips a 5-pins terminal block to provide dual redundant power inputs with Reverse Polarity Protection and two sets of relay which allows field engineers to build up a stand-alone fault alarm system. Its IP30 housing protection, wide operating temperature of -20 to 70°C and DIN-Rail mounting capacities are liable to do most industrial filed applications.

Being Profinet CC-B v2.33 certified, this switch Series is Automation and IoT ready. Profinet allows wired and wireless combinations for an array of connectivity options, providing a more effective backbone for your automation operations.

General Specifications

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, SNMP, SMTP, RMON, HTTP, Syslog, PROFINET, Modbus/TCP, LLDP, IEEE 1588 PTP V2, IPv4, NTP Client, EAP, RADIUS, 802.1x
MIB	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

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, RJ-45 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)

Physical Characteristics

Housing	IP30 protection, metal housing
Dimension	78mm x 137.9mm x 164mm (W x D x H)
Weight	approx 1.4 kg (Max.)
Installation	DIN-Rail, Wall Mount (Optional Kit)

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

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			
Test	Item		Value	Level
IEC 61000-4-2	ESD	Contact Discharge	±6KV	3
		Air Discharge	±8KV	3
IEC 61000-4-3	RS	Radiated(Enclosure)	10 (V/m)	3
IEC 61000-4-4	EFT	AC Power Port	±2.0 KV	3
		DC Power Port	±2.0 KV	3
		Signal Port	±1.0 KV	3
IEC 61000-4-5	Surge	AC Power Port	Line-to-Line ±1.0KV	3
		AC Power Port	Line-to-Earth ±2.0KV	3
		DC Power Port	Line-to-Line ±1.0KV	3
		DC Power Port	Line-to-Earth ±2.0KV	3
		Signal Port	Line-to-Earth ±1.0KV	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			
Traffic Control	NEMA TS-2			
RoHS	Yes			
MTBF	TBD			
Warranty	5 years			

Ordering Information				
Model Name	Port Interface			
	Fast Ethernet		Gigabit Ethernet	
			Combo Port	
	Non-PoE	PoE	RJ-45	SFP
EH7520-4G-4SFP	16	-	(4)	(4)
EH7520-4G-4PoE-4SFP	12	4	(4)	(4)
EH7520-4G-8PoE-4SFP	8	8	(4)	(4)

Note: Numbers in the parenthesis are the Combo ports.

Optional Accessories	
WMK-450-Black	Metal Wall Mount Kit, Black
CBL-RJ45(8P)-DB9(F)-90-C	8-pin RJ45 to DB9 Female Cross Over Cable, 90cm
AD1120-48F	120W/2.5A DIN-Rail 48 VDC power supply with universal 100~240VAC/120-370VDC input
AD1240-48C	240W/5A DIN-Rail 48 VDC power supply with universal 100~240VAC/120-370VDC input
LM28-C3S-TI-N	SFP Transceiver, 1250Mbps, 850nmVCSEL, Multi-mode, 550m, 3.3V, -20~85°C
LM38-C3S-TI-N	SFP Transceiver, 1250Mbps, 1310nmFP, Multi-mode, 2km, 3.3V, -40~85°C
LS38-C3S-TI-N	SFP Transceiver, 1250Mbps, 1310nmFP, Single-mode, 10km, 3.3V, -40~85°C
LS38-C3L-TI-N	SFP Transceiver, 1250Mbps, 1310nmDFB, Single-mode, 30km, 3.3V, -40~85°C
LM38-A3S-TI-N	SFP Transceiver, 155Mbps, 1310nmLED, Multi-mode, 2km, 3.3V, -40~85°C
LS38-A3S-TI-N	SFP Transceiver, 155Mbps, 1310nmFP, Single-mode, 30km, 3.3V, -40~85°C

Note: Please choose a power supply wisely based on the actual power requirement. EH7520's system require 18W and each PoE port adds 15W for 802.3af or 30W for 802.3at.

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