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/MSTP for network redundancy
- Remote management over Web browser, Telnet console, serial console, and Windows Utility
- Profinet CC-B v2.33 certified and GSDML file provided
- Security features based on IEC62443-4-2

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. To prevent network intrusions, it is necessary to have a good accessing control mechanism that can identify, authenticate and authorize users. EH7520 supports user account, password policy, and authentication interface managements functions that comply with IEC62443 standard.

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.

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IP30 Rated IEC/EN60529

v:2.6

SPECIFICATIONS

Technical Specifications	
Model Name	EH7520 Series
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, TFTP, SNTP, SMTP, RMON, HTTP, Syslog, PROFINET, Modbus/TCP, LLDP,IEEE 1588 PTP V1/V2, IPv4, NTP Client, EAP, RADIUS, 802.1x, IPv4, IPv6, IGMP Snooping, GARP, GMRP, SNMP Inform, SSH, DHCP Relay/Client, BootP, NTP Server/Client, SMTP(Gmail), MRP (Client), TACACS+, Mirror port, QoS, ACL, Serial Console, U-Ring, STP, RSTP, MSTP, Redundancy Compatible Ring, Profinet, Modbus/TCP,UDLD,Security, Trunk, LACP, MLD, 802.1Q VLAN, Port-Based VLAN, MAC-Based VLAN, IP-Subnet-Based VLAN, Protocol-Based VLAN, QinQ,802.1x, ARP spoof Prevention, DHCP snooping, IP source Guard, Dynamic ARP Inspection, DHCP relay Agent
Automation Profiles	Profinet CC-B v2.33 certified
MIB	MIB II, IF-MIB, SNMPv2 MIB, BRIDGE-MIB, RMON MIB Group 1,2,3,9
	NTP Server/Client, SNTP
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

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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 Dimension (W x H x D) Weight Installation	IP30 protection, metal housing 80mm x 137.9mm x 164mm 1.4 kg DIN-Rail, Wall Mount (Optional Kit)

Environmental Limits

Operating Temperature Storage Temperature Ambient Relative Humidity	-20°C~70°C (-4°F~158°F) -40°C~85°C (-40°F~185°F) 5%~95%, 55°C (Non-condensing)

REGULATORY APPROVALS

Regulatory Approvals

Safety	UL60950-1 2nd Ed. /CSA C22.2 No.60950-1-07 2nd Ed. / CB (IEC/EN62368-1 & IEC/EN60950-1)
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 Air Discharge	±6KV ±8KV	3 3
IEC 61000-4-3	RS	Radiated(Enclosure)	10(V/m) 3(V/m) 1(V/m)	3 3 3
IEC 61000-4-4	EFT	AC Power Port DC Power Port Signal Port	±2.0kV ±2.0kV ±1.0kV	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	-	-

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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

Ordering information

Model name	Port Interface			
	Port Interface		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

Model name	Description
CBL-RJ45(8P)-DB9(F)-90-C	8-pin RJ45 to DB9 Female Cross Over Cable, 90cm
WMK-450-Black	Aluminum wall mount kit
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.