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RELIABLE SECURE CONNECTIVITY

XE7520 Series

Industrial PoE Managed Switches



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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

PRODUCT DESCRIPTION

The XE7520 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, XE7520 Series 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, XE7520 Series offers intelligent features such as Quality of service (QoS), Virtual LAN (VLAN), IGMP, Port mirroring and security.

The XE7520 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.

SPECIFICATIONS

Technical Specifications	
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, 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

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 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			
Traffic Control	NEMA TS-2			
RoHS	Yes			
MTBF	TBD			
Warranty	5 Years			

ORDERING INFORMATION

Ordering Information				
Model Name	Port Interface			
	Fast Ethernet		Gigabit Ethernet	
			Combo Port	
	Non-PoE	PoE	RJ-45	SFP
XE7520-4G-4S	16	-	(4)	(4)
XE7520-4G-4P-4S	12	4	(4)	(4)
XE7520-4G-8P-4S	8	8	(4)	(4)

Note: Numbers in the parenthesis are the Combo ports.

Optional Accessories	
Accessories Type	Description
XWK450-A-BK	Metal Wall Mount Kit, Black
XCC-RJ45-DB9-90-F	8-pin RJ45 to DB9 Female Cross Over Cable, 90cm
XDP-120-48F	120W/2.5A DIN-Rail 48 VDC power supply with universal 100~240VAC/120-370VDC input
XDP-240-48C	240W/5A DIN-Rail 48 VDC power supply with universal 100~240VAC/120-370VDC input
XTR-28-SX-550M	SFP Transceiver, 1250Mbps, 850nmVCSEL, Multi-mode, 550m, 3.3V, -20~85°C
XTR-38-SX-2K	SFP Transceiver, 1250Mbps, 1310nmFP, Multi-mode, 2km, 3.3V, -40~85°C
XTR-38-LX-10K	SFP Transceiver, 1250Mbps, 1310nmFP, Single-mode, 10km, 3.3V, -40~85°C
XTR-38-LX-30K	SFP Transceiver, 1250Mbps, 1310nmDFB, Single-mode, 30km, 3.3V, -40~85°C
XTR-38-FM-2K	SFP Transceiver, 155Mbps, 1310nmLED, Multi-mode, 2km, 3.3V, -40~85°C
XTR-38-FM-2K	SFP Transceiver, 155Mbps, 1310nmLED, Multi-mode, 2km, 3.3V, -40~85°C
XTR-38-FS-30K	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. XE7520's system require 18W and each PoE port adds 15W for 802.3af or 30W for 802.3at.

WHO WE ARE

Built on 20 years of experience in designing and manufacturing industrial networking products, **Agatel** was established from the UK to serve the infrastructure and industrial sectors in EMEA markets with reliable connectivity for mission-critical systems in demanding environments.

Experienced in hardware and software design and integration, we produce high-quality yet cost-effective industrial networking and communication products with great customization capabilities and robust implementations, equipping our customers for reliable secure industrial networks.

WHAT WE OFFER

The needs of our customers' industry are different from those of corporate IT environments – industrial operating environments are tough and the impact of failure in the field can lead to business threatening situations, hence our products will have lifetimes in excess of 20 years.

From entry-level to high-performance industry-certified hardware, **Agatel** offers a full solution spectrum to suit our customers' budgets and application requirements, with features such as industrial-grade reliability, integrated security, network redundancy, and advanced performance.

Our product solution profile includes industrial Ethernet switches, network time servers, media converters, industrial wireless devices, and serial device servers, covering a wide array of mission-critical applications such as automation, security, transport, water, oil and gas, and power grids.

WHY CHOOSE US

We help our customers reduce downtime and operational costs of their industrial applications in harsh environments. Leading system integrators in EMEA rely on our niche technical expertise and product quality to increase their applications' robustness, revenues, and competitive differentiation.

Agatel ruggedized high-quality solutions are designed to deliver zero-network-downtime for harsh project demands, allowing for reliable connectivity to keep people and assets safe and secure in harsh and hazardous environments, and allowing customers to focus on growing their business.

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