industrial solutions

XPS-I8120-16PB

8 port 10/100/1000 PoE + 4 port 1000T + 4 port 1/10G SFP+ L3 Managed Industrial Switch



- 8 Port 1000BaseT PoE++
- 4 Port 1000BaseT
- 4 Port 1/10G Base SFP+
- Layer 3 RIP , OSPF , VRRP
- Total PoE Budget: 360 W
- IP40
- DIN Rail
- Railway Grade (EN50121-4)

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Technical Specs.	
Model No	XPS-I8120-16PB
Port Capacity	16 Port Ind. Layer 3 Managed PoE Switch
Port Types	8x 10/100/1000Base-T RJ45 copper ports (PoE++) + 4 x 1000BaseT copper ports + 4 x 1/10Gb SFP+ ports + 1 x RJ45 console port + 1 x 10/100/1000 RJ45 Out Of Band Management port + 1 x DI and 1 x DO ports + 1 USB port
Performance	
Switching Capacity	256 Gbps , wire speed (non-blocking)
Forwarding Rate	160.71 Mpps
MAC Table	16K
Jumbo Frames	12K
Memory	512M , DDR 4G DDR3
Auto-negotiation	√
Auto MDI/MDIX	√
Store-and-Forward	√
Layer 2 Features	
Spanning Tree Protocol (STP)	IEEE802.1d Spanning Tree Protocol IEEE802.1w Rapid Spanning Tree Protocol IEEE802.1s Multiple Spanning Tree Protocol Loop Back Detection
IGMP Snooping	IGMP v1/v2/v3
VLANs	Support up to 4.094 VLANs Port-based VLAN 802.1Q tag-based/trunk based VLAN
Link Aggregation	IEEE 802.3ad LACP , 128 Groups with 8 ports per group
Ethernet Ring Protection Switching	G.8032/Y.1344
Flow Control	IEEE802.3x
Private VLAN	√
Q in Q	√
GMRP	√
Layer 3 Features	
Static Routing	IPv4 Routing Table 6K
RIP	RIP v1/v2
ARP	Support static and dynamic ARP inspection
OSPF	OSPF v2
Policy Route	√
VRRP	√

Security Features	
Broadcast, multicast , unicast storm control	Secure Shell (SSH, SFTP), Telnet security, supports SSH v1 and v2
Secure Sockets Layer (SSL), Web security	ACL, VLAN1 ID or IP address,
DHCP Snooping , Relay , Option 82	MAC Based, Protocol based, Port Based, L4 TCP/ UDP
ARP Inspection	Ethernet type,ICMP, IGMP, TCP flag
IP Source Guard	Port Security , 802.1x
AAA, RADIUS and TACACS+	ICMP DOS Attack Prevention
MAC Table Management	Static MAC Address
MAC Address Binding	MAC Address Filtering
MAC Learning Control	STP Root Guard
BPDU Attack Protection	DI/DO Alarm Ports

Management		
Web/SSL	SNMP (v1, v2, v3)	Firmware upgrade,
Port Mirroring	DHCP Client	(HTTP/HTTPs and TFTP)
Port Isolation	Web GUI Interface	LLDP – LLDP-MED
Telnet/SSH	Cable Diagnostics	SNTP
Ping	CPU Load	TFTP
HTTP/HTTPs	RMON	Syslog
Timezone	OAM	Comapatible with Cisco UDLD

IPv6	
IPv6 MLD snooping	IPv4/IPv6 Dual Protocol Stack
IPv6 Ping	IPv6 VLAN
IPv6 Routing table 2K	

Quality of Service	
CoS	8 queues per port TCP/ UDP Strict priority Weighted Round Robin (WRR) , SP Traffic Policing/Trottling/Shaping
Rate Limiting	Ingress/Egress Rate control
Traffic classification	IEEE802.1p DSCP / IP precedence ToS

PoE	
Standard	IEEE802.3af IEEE802.3at IEEE802.3bt
Total Power Budget	360W
Max. PoE Power for each port	Port 1 : 90 W , Port 2-8 : 30W

Environment	
DC Power Input	12-57V (Dual Terminal Input for RPSU)
Total Power Consumption	385W
Operating/Storage Temperature	-40 - 75 ℃ / -50 - 85 ℃
Operating Humidity	5% - 95% , non-condensing
MTBF	> 765.000 hours
Lightning Protection Level	6KV 8/20us

Mechanical	
Dimension	155 x 145 x 95 mm
Weight	1.85 kg
Installation	IP40 rating , DIN-rail

Standards

EN55022	EN61000-6-2	EN61000-4-5	IEC60068-2-27 Ea
EN55035	EN61000-4-2	EN61000-4-6	IEC60068-2-31
EN61000-6-4	EN61000-4-3	EN61000-4-8	EC60068-2-32
EN61000-3-2	EN61000-4-4	IEC60068-2-6	IEC60068-2-64
EN61000-3-3	EN50121-4	ISO 9001	CE FCC

Ordering Information

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Modules

XPS-I22LR	XPS Industrial Dual Core 10G LR SM 10Km SFP+ Module -40/75°C
XPS-I22SR	XPS Industrial Dual Core 10G SR MM SFP Module -40/75°C

*more module ranges are available upon request.