

At SIL4 Systems our Mission and Relentless Commitment is to **Safety and High Reliability**

16 PORT M12 INDUSTRIAL MANAGED PoE+ BOOSTER GIGABIT ETHERNET ROUTER

Features

- Compliant with EN50155
- 16x 10/100/1000T(x) with 30W PSE M12 connector
- Support Bypass function on ports 9 and 10
- Built for harsh environments and wide temperature range application
- TTDP embedded software, automatically configure train consists
- RSTP, MSTP, ERPS, LACP for Network Redundancy
- QoS CoS/DSCP to increase determinism
- Supports PoE PD Alive Check Function for PoE Device Power Recycle
- Power Boost for PoE+
- Isolated redundant PoE power 190W



Cyber-Secure Features

- Supports IGMP Snooping v1/v2/v3, up to 512 groups
- Support for advanced validation security with RA-DIUS and TACAS+ support
- SNMP v1/v2c/v3 for network management
- Supports Storm Protection for anti-packet storm

Specifications

Technology	Switch Properties	Interface	Power Requirements	
Standards	IEEE 802.3 10BaseT	Network Connector	Operation Voltage	
	IEEE 802.3u 100BaseTX			16x 10/100/1000T(x) M12 Female X-coded, auto negotiation speed duplex mode, auto MDI/MDI-X
	IEEE 802.3ab 1000BaseT	Priority Queues	LED Indicators	Connection
	IEEE 802.3x Flow Control	8 Queues		
	IEEE 802.3af Power over Ethernet	Jumbo Frame	Alarm Contact	Power Consumption
	IEEE 802.3at PoE+	9216bytes		
	IEEE 802.3az Energy-Efficient Ethernet	MAC Table Size	Serial Console	PoE Power Budget
	IEEE 802.3ad/802.1AX LACP	16k		
	IEEE 802.1D Spanning Tree Protocol	Packet Buffer	Protection	Overload Current Protected, Reverse Polarity Protected
	IEEE 802.1w Rapid STP	12Mbits		
	IEEE 802.1s Multiple STP	VLAN Table Size		
	ITU-T G.8032 / Y.1344 ERPS	512		
	IEEE 802.1Q VLAN Tagging	IGMP Group		
	IEEE 802.1ad Stacked VLANs	512		
	IEEE 802.1p Class of Service	ACL Group		
IEEE 802.1X Network Authentication	512			
IEEE 802.1AB LLDP	Router Forwarding Rate			
IEEE 1588 PTP	5Mbits			
Processing Type	Store and Forward			

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Software Feature		Mechanical Construction		Regulatory Approvals	
Security	802.1X, RADIUS, TACAS+, SSL, SSH 802.1Q, VLAN, Q-in-Q, IGMP	Enclosure	SECC	EMI	FCC Part 15 Subpart B Class A CE EN 55032 Class A
Filter	Snooping v1/v2/v3, IGMP Querier, Independent Vlan Learning	Protection Class	IP40/IP54(Optional)		IEC61000-4-2 (ESD) IEC61000-4-3 (RS) IEC61000-4-4 (EFT) IEC61000-4-5 (Surge) IEC61000-4-6 (CS) IEC61000-4-8 (Magnetic Field)
Network	RSTP, MSTP, G.8032 ERPSv2, Port Trunking with LACP	Dimensions	220x176x100 mm (WxHxD)	EMS	
Redundancy	IPV4, IPV6, Web, Telnet, Serial Console, CLI, SNMP v1/v2c/v3, uPnP	Weight	3 kg		
Management	RMON, SNMP Inform/Trap, Syslog, SMTP, Port Mirroring, LLDP	Mounting	Wall Mounting Kits, Optional DIN-Rail Mounting	Free Fall	IEC60068-2-32
Diagnostics	DHCP Server/Client, Relay Option 82, TFTP	Environmental Limits		Shock & Vibration	IEC61373
Configuration	NTP, IEEE1588v2 OC (Software Timestamp), BC (Software Timestamp), TC (Hardware Timestamp)	Operating Temperature	Extended: -40°C ~ 75°C (-40°F ~ 167°F)	Green	RoHS Compliant
Time Sync.	Powering Status, PoE Monitoring, Scheduling, PD Alive Check	Storage Temperature	-40°C ~ 85°C (-40°F ~ 185°F)	Certifications	EN 50155 EN 45545-2
PoE	CoS, DSCP, WRR/SPQ Queuing, Storm Protection	Ambient Relative Humidity	5 to 95%, (Non-Condensing)	MTBF	>100,000 hours
QoS	Ethernet/IP, Modbus TCP, Profinet, TTDP			Warranty	5 Years
Industrial Profiles					
L3 Routing	NAT				

Dimensions (unit = mm)

