

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

10 PORT M12 INDUSTRIAL MANAGED GIGABIT ETHERNET SWITCH



Features

- Compliant with EN50155
- 8x 10/100/T(x) with 8x IEEE 802.3at and 2x 10/100/1000T(x) M12 connector
- Support Bypass function on ports 9 and 10
- Built for harsh environments and wide temperature range application
- RSTP, MSTP, ERPS, LACP for Network Redundancy
- QoS CoS/DSCP to increase determinism



Cyber-Secure Features

- Supports IGMP Snooping v1/v2/v3, up to 512 groups
- Supports advanced validation security with RADIUS 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 IEEE 9-2.3u 100BaseTX IEEE 802.3ab 1000BaseT IEEE 802.3x Flow Control IEEE 802.3az Energy-Efficient Ethernet IEEE 802.3ad/802.1AX LACP IEEE 802.1D Spanning Tree Protocol IEEE 802.1w Rapid STP IEEE 802.1s Multiple STP ITU-T G.8032 / Y.1344 ERPS IEEE 802.1Q VLAN Tagging IEEE 802.1ad Stacked VLANs IEEE 802.1p Class of Service IEEE 802.1X Network Authentication IEEE 802.1AB LLDP IEEE 1588 PTP	Switch Fabric 5.6Gbps Priority Queues 8 Queues Jumbo Frame 9216bytes MAC Table Size 16k Packet Buffer 12Mbits VLAN Table Size 4094 IGMP Group 512 ACL Group 512	Network Connector 8x 10/100T(x) M12 Female D-coded 4-pole with PoE+, 2x 10/100/1000T(x) M12 Female X-coded 8-pole, auto negotiation speed duplex mode, auto MDI/MDI-X LED Indicators Per unit: PWR1, PWR2, Status Ports: Link/Active with highest speed (Green), low speed (Amber) Alarm Contact 1x relay output with current carrying capacity of 1A @ 24 VDC Serial Console 1x RS232 in M12 Male A-coded 5-pole connector with console cable, 115.2Kbps, 8N1	Operation Voltage LV 9V~36V Operational; 24V Normal MV 16.5~75V Operational; 48V Normal HV 43V~160V Operational; 72V~110V Normal Connection M12 Male S-coded 4-pole Power Consumption 15W Protection Overload Current Protected, Reverse Polarity Protected	
	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 Redundancy RSTP, MSTP, G8032 ERPSv2, Port Trunking with LACP	Dimensions 143x209x77 mm (WxHxD)	EMS
Management IPv4, IPv6, Web, Telnet, Serial Console, CLI, SNMP v1/v2c/v3, uPnP	Weight 1.20 kg	
Diagnostics RMON, SNMP Inform/Trap, Syslog, SMTP, Port Mirroring, LLDP	Mounting Wall Mounting Kits, Optional DIN- Rail Mounting	Free Fall IEC60068-2-32
Configuration DHCP Server/Client, Relay Option 82, TFTP	Environmental Limits	Shock & Vibration IEC61373
Time Sync. 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
QoS CoS, DSCP, WRR/SPQ Queuing, Storm Protection	Storage Temperature -40°C ~ 85°C (-40°F ~ 185°F)	Certifications EN 50155 EN 45545-2
Industrial Profiles Ethernet/IP, Modbus TCP, Profinet, TTDP	Ambient Relative Humidity 5 to 95%, (Non-Condensing)	MTBF >100,000 hours
PoE Powering Status, PoE Monitoring, Scheduling, PD Alive Check		Warranty 5 Years

Dimensions (unit = mm)

