ES118M Series

-18-port EN50155 Industrial Ethernet Switches-

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EN50155 compliant Ethernet switch for railway applications
Support ERPS, STP/RSTP/MSTP for network redundancy
IGMP Snooping for filtering multicast traffic
Port-based VLAN, IEEE 802.1Q VLAN, and GVRP to ease network planning
Port Trunking for optimum bandwidth utilization

- RADIUS,TACACS+,SNMPv3,IEEE 802.1X,HTTPS and SSH to enhance network security
- QoS (IEEE 802.1p/CoS) and ToS/DiffServ to increase determinism
- SNMPv1/v2c/v3 for different levels of network management
- RMON for efficient network monitoring and proactive capability
- Support port mirroring
- Bandwidth management prevents unpredictable network status
- Lock port function for blocking unauthorized access based on MAC address
- Automatic alarm through e-mail, relay out
- User friendly UI and command command Line Interface (CLI) for quickly configuring major managed functions
- M12 connectors to guarantee reliable operation against environmental disturbances

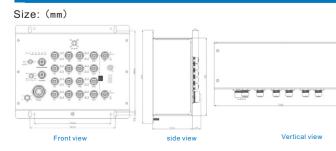
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Overview:

The ES118M series Ethernet switches are designed for industrial applications, such as rolling stock, vehicle, and railway applications. It has 16x10/100Base-T(X) and 2x10/100/1000Base-T(X) ports which is compliant with EN50155 requirement. It is specifically designed for the toughest industrial environments.

With completely support of Ethernet Redundancy protocol, ERPS and RSTP/STP can protect your mission-critical applications from network interruptions or temporary malfunctions with its fast recovery technology. ES118M series supports functions of network management, such as SNMP, RMON, Port Trunking, and Port/Tagbased VLAN security. In addition, the wide operating temperature range from -40 to 85°C can satisfy most of operating environment. Therefore, the switch is one of the most reliable choices for rolling stock and highly-managed Ethernet application.

Dimensions



Order information:

Model No	Description	
	10/100BaseT(X)	10/100/1000BaseT(X)
WT-ES-10216_G	16	2

Specifications:	
Protocols	IGMPv1/v2/v3, GMRP, GV 66/67/82,BootP,TFTP, SNTP,SM PROFINET,Modbus/TCP, SNM
MIB	MIB-II, Ethernet-Like MIB, P-BF RSTP MIB, RMON MIB Group
Flow Control	IEEE 802.3x flow control, bac
Switch Properties	Priority Queues: 4 Max. Number of Available VL VLAN ID Range: VID 1 to 409
Interface	Rj45 ports: 10/100/1000 Bas RJ45 ports: 10/100 Base-T() Console Port: RS-232 in M1 LED Indicators: PWR,L/A,SF
Power Requirement	Input Voltage: Dual 12~48VI Connection: M23 connector Reverse Polarity Protection:
Physical Characteristics	Housing: Aluminum, IP40 p Dimensions: 170 x 196 x 75n Installation: Field-style mou
Environmental Limits	Operating Temperature: -40 Storage Temperature: -40 Ambient Relative Humidity: {
Standards	EMI : FCC Part 15 Subpart B Class EMS: EN 61000-6-2 (Industrial), EI (RS) Level 3, EN 61000-4-4 (EN 61000-4-6 (CS) Level 3, E Shock: IEC 60068-2-27 Freefall: IEC 60068-2-32 Vibration: IEC 60068-2-32 Vibration: IEC 60068-2-6 MTBF (mean time between IEEE 802.3 for 10Base-T IEEE 802.3 u for 100Base-T IEEE 802.3 u for 100Base-T IEEE 802.3 u for 100Base-T IEEE 802.1 b for Spanning Tr IEEE 802.1 w for Rapid Span IEEE 802.1 for Multiple Spa IEEE 802.1 p for Class of Ser IEEE 802.1 X for Authenticati IEEE 802.3 ad for Port Trunk w IEEE 802.3 x for Flow Control
Warranty	5 years
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VRP, SNMPv1/v2c/v3,DHCP Server/Client, DHCP Option MTP, RARP, RMON, HTTP, HTTPS, Telnet, SSH, Syslog, EtherNet/IP, IP Inform, LLDP, IEEE 1588 PTP V2, IPv6, NTP Server/Client RIDGE MIB, Q-BRIDGE MIB, Bridge MIB, 1, 2, 3, 9 ack pressure flow control Jumbo Frame Size:9.6 KB IGMP Groups: 256 LANs: 64 MAC Table size:8K)94 Packet Buffer Size:1Mbit se-T(X) Port in M12 D-coding Auto MDI/MDIX X) Ports in M12 D-coding Auto MDI/MDIX 12 connector PD 'DC Power Consumption: 11 Watts **Overload Current Protection: Present** : Present rotection mm (6.7 x 7.7 x 2.95 in) Weight: 1400g Inting, DIN-Rail mounting (with optional kit) 40 ~ 85 ℃ (-40 ~ 185 °F) ~ 85 ℃ (- 40 ~ 185 °F) 5~95% (non-condensing) sA, EN 61000-6-4(Industrial) N 61000-4-2 (ESD) Level 4, EN 61000-4-3 (EFT) Level 4, EN 61000-4-5 (Surge) Level 4, EN 61000-4-8. IEEE 1613 failures): 305,000 hrs ree Protocol ning Tree Protocol anning Tree Protocol ing rvice ion with LACP