

EKI-9508E-MPH EKI-9508E-MPL

EN50155 8-Port M12 PoE Managed Ethernet Switch 72/96/110 V_{DC} EN50155 8-Port M12 PoE Managed Ethernet Switch 24/48 V_{DC}



CE FCC

Features

- Complies with EN50155
- 8 M12 D-coded 10/100Mbps PoE ports
- Power input
EKI-9508E-MPH: 72/96/110 V_{DC}
EKI-9508E-MPL: 24/48 V_{DC}
- Operating Voltage
EKI-9508E-MPH: 50.4~137.5 V_{DC}
EKI-9508E-MPL: 16.8~60 V_{DC}
- X-Ring Pro supports rapid and predictable convergence
- IEEE802.3at PoE+ to supply 30 W of power
- IEEE802.3af PoE to supply 15.4 W of power
- M12 connector with IP40 protection
- Operating temperature range -40 ~ 70°C

Introduction

The EKI-9500 series switch is designed for railway application with rugged and high EMC performance, being suitable for networking solution for rolling stock and wayside applications. The EKI-9500 series provides M12 connectors for Ethernet/ console/ relay/ power-input connections to ensure tight & robust connectivity, and thus to guarantee reliable operation against environmental disturbances such as vibration and shock on train.

EKI-9508E-MPH & EKI-9508E-MPL are Managed PoE Ethernet switches that provide 8 x Fast Ethernet M12 D-code port interface with IEEE802.3af/at PoE (Power Over Ethernet) function. The PoE ports can provide up to 90Watts power budget for P.D. devices (such as camera, IP-phone and wireless access point). The EKI-9508E-MPH/ MPL features "slim" designs which can be easily deployed with its slender size and make the network deployment easier in crowded carriage/ cabinet.

Specifications

Interface

- I/O Port** 8 x 10/100BASE-T M12 D-Coded
- Console port** M12 A-Coded
- Power Connector** M12 A-Coded

Physical

- Enclosure** Metal Shell
- Protection Class** IP 40
- Installation** Wall Mount
- Dimensions (W x D x H)** 122.5 x 179.4 x 71.8 mm
- Weight** 1.3 kg

LED Display

- System LEDs** PWR1, PWR2, R.M., SYS
- Port LED** Data, PoE

Environment

- Operating Temperature** -40 ~ 70 °C
- Storage Temperature** -40 ~ 85 °C
- Ambient Relative Humidity** 10 ~ 95% (non-condensing)

Power

- Power Consumption** ~ 5 Watts (System)
- PoE Power Budget** EKI-9508E-MPH: 90 Watts
EKI-9508E-MPL: 60 Watts
- Power Input** EKI-9508E-MPH: 72/96/110 V_{DC}
EKI-9508E-MPL: 24/48 V_{DC}
- Operating Voltage** EKI-9508E-MPH: 50.4~137.5 V_{DC}
EKI-9508E-MPL: 16.8~60 V_{DC}
Dual inputs Supports Overload Current Protection Supports Reverse Polarity Protection

Certification

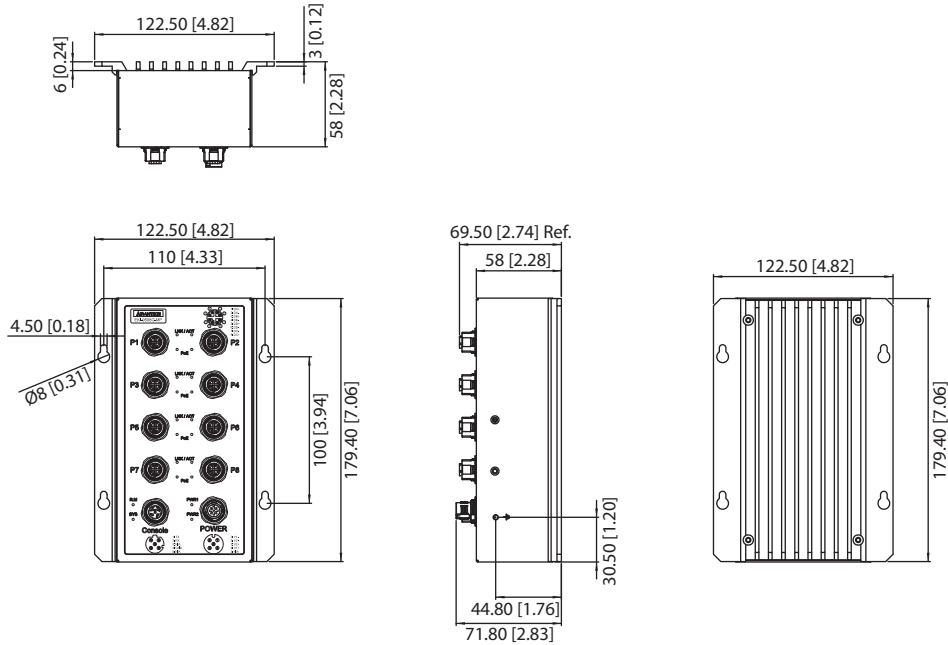
- EMI** FCC Part 15 Subpart B Class A
CE EN55032 (CISPR)
EN55024 Class A
- EMS** EN61000-4-2 (ESD); EN61000-4-3 (RS);
EN61000-4-4 (EFT); EN61000-4-5 (Surge);
EN61000-4-6 (CS)
- Shock** IEC 61373
- Freefall** IEC 60068-2-32
- Vibration** IEC 61373
- Rail Traffic** EN50155; EN50121-3-2

L2 Features

- L2 MAC Address** 8K
- Jumbo Frame** 9KB
- VLAN Group** 4K (VLAN ID 1~4094)
- VLAN** Mac based VLAN, Protocol based VLAN, IP subnet based VLAN, Port based VLAN, Q in Q (VLAN Stacking), GVRP
- Port Mirroring** Per port, Multi-source port
- IP Multicast** IGMP Snooping v1/v2/v3, MLD Snooping, IGMP Immediate leave
- Storm Control** Broadcast, Multicast, Unknown unicast
- Redundancy Protocol** IEEE802.1D-STP, IEEE802.1s-MSTP, IEEE802.1w-RSTP, X-Ring Pro

Dimensions

Unit: mm [inch]



QoS

- **Priority Queue Scheduling** WRR (Weighted Round Robin), SP (Strict Priority)
- **Class of Service** IEEE802.1p based CoS, IP TOS, DSCP based CoS
- **Rate Limiting** Egress Rate limit
- **Link Aggregation** IEEE802.3ad Dynamic Port Trunking, Static Port Trunking

Security

- **Port Security** Static, Dynamic
- **Authentication** 802.1x (Port-Based, MAC-Based), RADIUS, TACACS+
- **ACL** 1K rules
- **Advanced Security** IP Source Guard, ARP inspection, DHCP Snooping

Management

- **DHCP** Client, Server, Relay, Option 66/67/82
- **Access** SNMP v1/v2c/v3, WEB, Telnet, RMON, Standard MIB, Private MIB
- **Security Access** SSH 2.0, SSL
- **Software Upgrade** TFTP, HTTP, Dual Image
- **NTP** NTP client

IPv6 Features

- **IPv4/IPv6** IPv4/IPv6 Dual Protocol Stack
- **IPv6** HTTP, SSH, Telnet, TFTP, SNTP, SMTP

Ordering Information

- **EKI-9508E-MPH-AE** Layer 2 Managed Switch, 8 x M12 Fast Ethernet with PoE/PoE+, 72/96/110 V_{DC} dual power input
- **EKI-9508E-MPL-AE** Layer 2 Managed Switch, 8 x M12 Fast Ethernet with PoE/PoE+, 24/48 V_{DC} dual power input