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

## EN 50155 8-Port M12 PoE Managed Ethernet Switch 72/96/110 $V_{DC}$
## EN 50155 8-Port M12 PoE Managed Ethernet Switch 24/48 $V_{DC}$

CE FCC

## Features

- Complies with EN50155
- 8 port 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
- IEEE 802.3at PoE+ to supply 30 W of power
- IEEE 802.3af PoE to supply 15.4 W of power
- M12 connector with IP40 protection
- Operating temperature of -40 ~ 70°C

## Introduction

EKI-9500 series switch is designed for railway application, with rugged and high EMC performance. EKI-9500 series is the suitable networking solution for rolling stock and wayside applications. EKI-9500 series provide M12 connectors for Ethernet/ console/ relay/ power-input connections to ensure tight & robust connectivity, to guarantee reliable operation against environmental disturbances, such as vibration and shock on train. EKI-9508E-MPH & EKI-9508E-MPL is a Managed PoE Ethernet switch, it provides 8 x Fast Ethernet M12 D-code interface with IEEE802.3af/at PoE (Power Over Ethernet) function. PoE ports can total provide up to 90Watts power budget for P.D. devices (such as camera, IP-phone and wireless access point). EKI-9508E-MPH/ MPL features a "slim" design, can be easy deployed with its slender size and let network deployment more simple 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** EN 50155; EN50121-3-2

### L2 Features

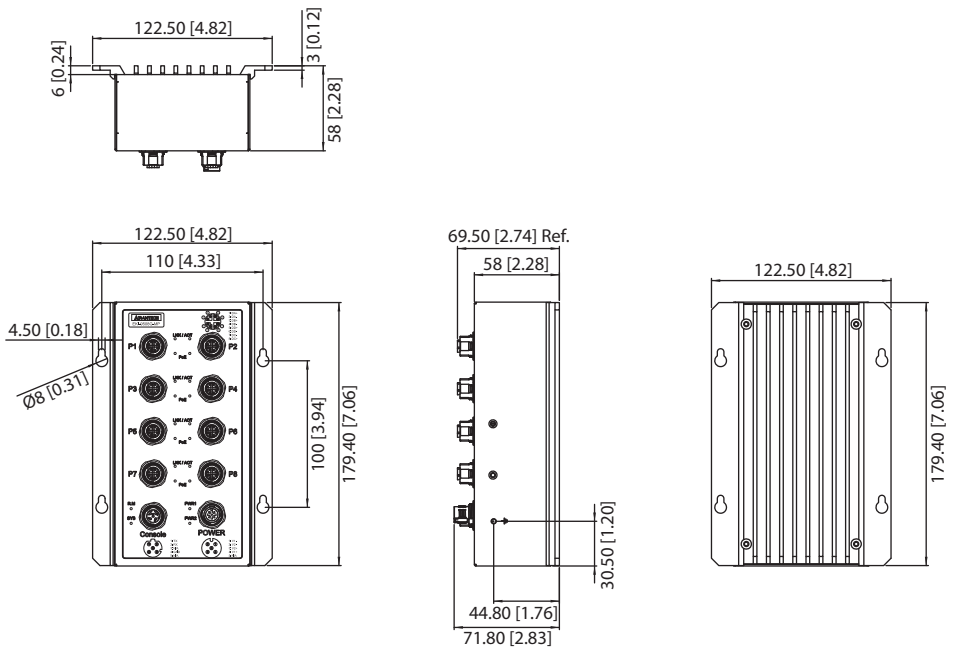
- **L2 MAC Address** 8K
- **Jumbo Frame** 9KB
- **VLAN Group** 4K (VLAN ID 1~4094)
- **VLAN** Mac based VLAN, Protocol based VLAN, IP subnet based VLAN, Port based VLAN, Q in Q (VLAN Stacking), GVRP
- **Port Mirroring** Per port, Multi-source port
- **IP Multicast** IGMP Snooping v1/v2/v3, MLD Snooping, IGMP Immediate leave
- **Storm Control** Broadcast, Multicast, Unknown unicast
- **Redundancy Protocol** IEEE 802.1D-STP, IEEE 802.1s-MSTP, IEEE 802.1w-RSTP, X-Ring Pro



Last updated: 24-Oct-2018

## Dimensions

Unit: mm [inch]




### QoS

- **Priority Queue Scheduling** WRR (Weighted Round Robin), SP (Strict Priority)
- **Class of Service** IEEE 802.1p based CoS, IP TOS, DSCP based CoS
- **Rate Limiting** Egress Rate limit
- **Link Aggregation** IEEE 802.3ad 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 VDC dual power input
- **EKI-9508E-MPL-AE** Layer 2 Managed Switch, 8 x M12 Fast Ethernet with PoE/PoE+, 24/48 VDC dual power input