

# EKI-9508E-PH

# EKI-9508E-PL

EN 50155 8-Port M12 Unmanaged Ethernet Switch 72/96/110 V<sub>DC</sub>  
EN 50155 8-Port M12 Unmanaged Ethernet Switch 24/48 V<sub>DC</sub>



CE FCC

## Features

- Complies with EN50155
- 8 port M12 D-coded 10/100Mbps PoE ports
- Power input  
EKI-9508E-PH: 72/96/110 V<sub>DC</sub>  
EKI-9508E-PL: 24/48 V<sub>DC</sub>
- Operating Voltage  
EKI-9508E-PH: 50.4~137.5 V<sub>DC</sub>  
EKI-9508E-PL: 16.8~60 V<sub>DC</sub>
- IEEE 802.3at PoE+ to supply 30 W of power
- IEEE 802.3af PoE to supply 15.4 W of power
- M12 connector with IP50 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-PH & EKI-9508E-PL is a 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-PH/PL 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
- Power Connector M12 A-coded

### Physical

- Enclosure Metal
- Protection Class IP50
- Installation Wall mount
- Dimensions (W x H x D) 122.5 x 179.4 x 71.8 mm
- Weight 1.3kg

### LED Display

- System LEDs PWR1, PWR2, SYS
- Port LED Data, PoE

### Environment

- Operating Temperature -40 ~ 70°C
- Storage Temperature -40 ~ 85°C
- Ambient Relative Humidity 5 ~ 95% (non-condensing)

### Power

- Power Consumption ~5 W (system)
- PoE Power Budget  
EKI-9508E-PH: 90 Watts  
EKI-9508E-PL: 60 Watts
- Power Input  
EKI-9508E-PH: 72/96/110 V<sub>DC</sub>  
EKI-9508E-PL: 24/48 V<sub>DC</sub>
- Operating Voltage  
EKI-9508E-PH: 50.4~137.5 V<sub>DC</sub>  
EKI-9508E-PL: 16.8~60 V<sub>DC</sub>  
Dual inputs Supports Overload Current Protection  
Supports Reverse Polarity Protection

### Certification

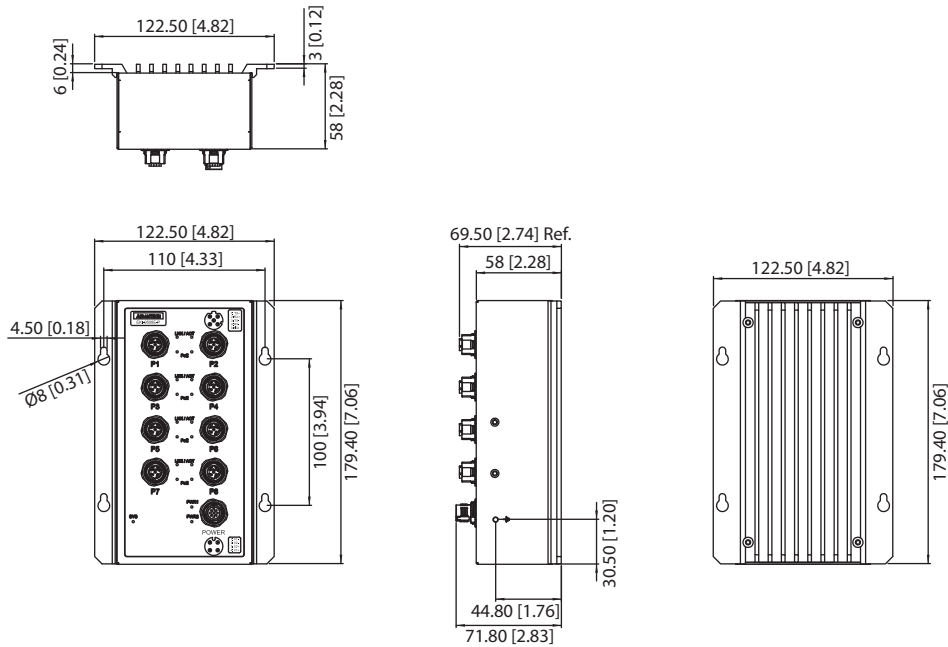
- EMI FCC Part 15 Subpart B Class A  
CE EN55032 (CISPR)  
EN55024 Class A
- EMS EN61000-4-2 (ESD), EN61000-4-3 (RS),  
EN61000-4-4 (EFT), EN61000-4-5 (surge),  
EN61000-4-6 (CS)
- Shock IEC 61373
- Freefall IEC 60068-2-31
- Vibration IEC 61373
- Rail Traffic EN 50155; EN50121-3-2

### L2 Features

- L2 MAC Address 8K
- Jumbo Frame 9 KB

## Dimensions






Unit: mm [in.]



## Ordering Information

- **EKI-9508E-PH-AE** Layer 2 switch, 8 x M12 fast Ethernet with PoE/PoE+, 72/96/110 V<sub>DC</sub> dual power input
- **EKI-9508E-PL-AE** Layer 2 switch, 8 x M12 fast Ethernet with PoE/PoE+, 24/48 V<sub>DC</sub> dual power input

## Accessories

PN		Description
OPT1-M12-CRP-4MD		Phoenix Contact M12 D-code 4 pin Male crimp type connector
OPT1-M12-CRP-4FA		Phoenix Contact M12 A-code 4 pin Female crimp type connector
OPT1-M12C-4MD-150R		M12 D-code 4 pin Male to RJ45, cable length: 1.5m
OPT1-M12C-4FA-100		M12 A-code 4 pin Female to 1m cable
1990023703S000		M12 waterproof CAP (1pc.)