# EKI-9508E-PH
# EKI-9508E-PL

**EN50155 8-Port M12 Unmanaged Ethernet Switch 72/96/110 V$_{DC}$**
**EN50155 8-Port M12 Unmanaged Ethernet Switch 24/48 V$_{DC}$**



CE FCC

## Features

- Complies with EN50155
- 8 M12 D-coded 10/100Mbps PoE ports
- Power input
  EKI-9508E-PH: 72/96/110 V$_{DC}$
  EKI-9508E-PL: 24/48 V$_{DC}$
- Operating Voltage
  EKI-9508E-PH: 50.4~137.5 V$_{DC}$
  EKI-9508E-PL: 16.8~60 V$_{DC}$
- 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.

The EKI-9508E-PH & EKI-9508E-PL are 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-PH/PL features "slim" designs which can be easy 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 |
| **Power Connector** | M12 A-coded |

### Physical

| | |
|---|---|
| **Enclosure** | Metal |
| **Protection Class** | IP40 |
| **Installation** | Wall mount |
| **Dimensions (W x D x H)** | 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** | 10 ~ 95% (non-condensing) |

### Power

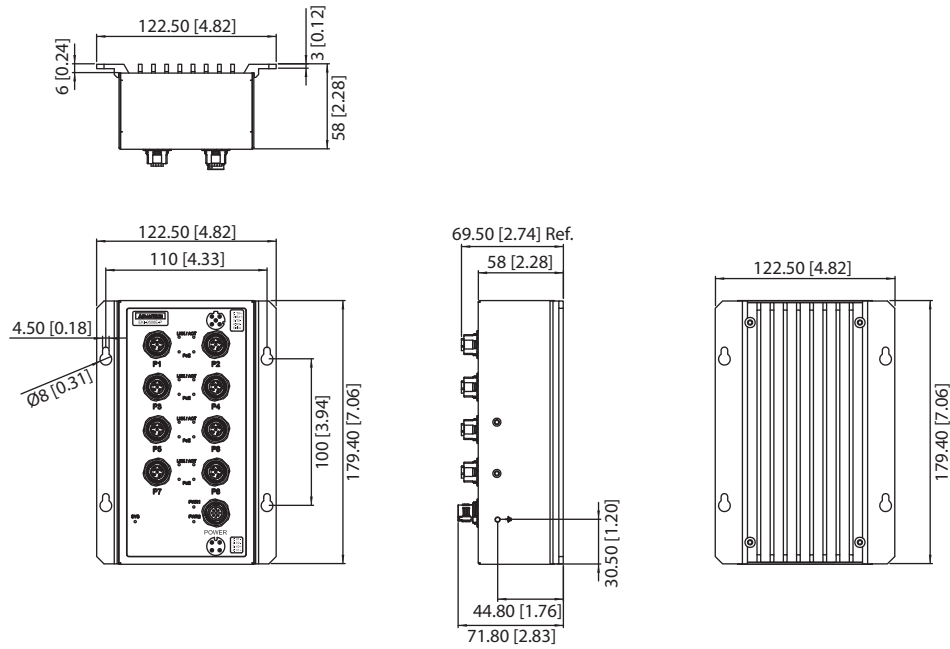| | |
|---|---|
| **Power Consumption** | ~5 W (system) |
| **PoE Power Budget** | EKI-9508E-PH:90 Watts<br>EKI-9508E-PL: 60 Watts |
| **Power Input** | EKI-9508E-PH: 72/96/110 V$_{DC}$<br>EKI-9508E-PL: 24/48 V$_{DC}$ |
| **Operating Voltage** | EKI-9508E-PH:50.4~137.5 V$_{DC}$<br>EKI-9508E-PL: 16.8~60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

### Certification

| | |
|---|---|
| **EMI** | FCC Part 15 Subpart B Class A<br>CE EN55032 (CISPR)<br>EN55024 Class A |
| **EMS** | EN61000-4-2 (ESD), EN61000-4-3 (RS),<br>EN61000-4-4 (EFT), EN61000-4-5 (surge),<br>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** | 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 $V_{DC}$ dual power input
- **EKI-9508E-PL-AE**  Layer 2 switch, 8 x M12 fast Ethernet with PoE/PoE+, 24/48 $V_{DC}$ dual power input