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

EN 50155 8-Port M12 Unmanaged Ethernet Switch 72/96/110 V$_{DC}$
EN 50155 8-Port M12 Unmanaged 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-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$_{DC}$
- 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-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**   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
  EKI-9508E-PL: 60 Watts
- **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$_{DC}$
  Dual inputs Supports Overload Current Protection
  Supports Reverse Polarity Protection
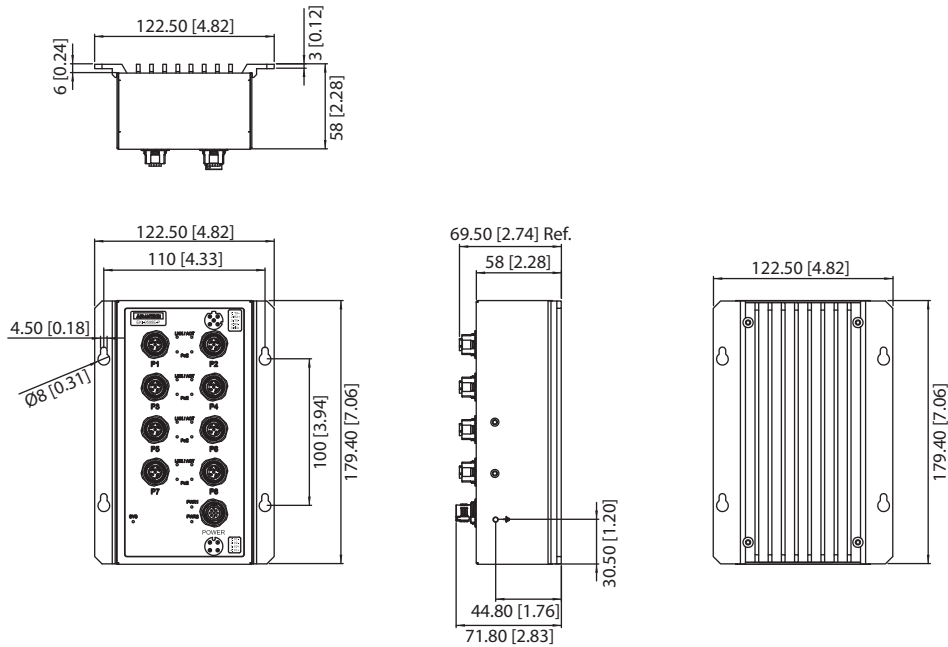
Certification

- **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**   9 KB

Dimensions

Unit: mm [in.]

122.50 [4.82]
6 [0.24]
3 [0.12]
58 [2.28]

122.50 [4.82]
110 [4.33]
4.50 [0.18]
Ø8 [0.31]
100 [3.94]
179.40 [7.06]

69.50 [2.74] Ref.
58 [2.28]
30.50 [1.20]
44.80 [1.76]
71.80 [2.83]

122.50 [4.82]
179.40 [7.06]

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

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.)