# EKI-9508E-MH EKI-9508E-ML

## EN 50155 8-Port M12 Managed Ethernet Switch 72/96/110 Vnc EN 50155 8-Port M12 Managed Ethernet Switch 24/48 V<sub>pc</sub>



8 x 10/100BASE-T M12 D-coded

M12 A-coded

M12 A-coded

### **Features**

- Complies with EN50155
- 8 port M12 D-coded 10/100Mbps ports
- Power input EKI-9508E-MH: 72/96/110 VDC EKI-9508E-ML: 24/48 VDC
- Operating Voltage EKI-9508E-MH: 50.4~137.5 Vpc EKI-9508E-ML: 16.8~60 VDC
- X-Ring Pro supports rapid and predictable convergence
- M12 connector with IP50 protection
- Operating temperature of -40 ~ 70°C

## **C € FCC**

## 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-MH & EKI-9508E-ML is a Managed Ethernet switch, it provides 8 x Fast Ethernet M12 D-code interface for all kinds of Ethernet connection. EKI-9508E-MH/ ML 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

- Console Port
- Power Connector

#### **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

#### Environment

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

-40 ~ 70°C

PWR1, PWR2, R.M., SYS

Supports Reverse Polarity Protection

#### Power

Power Consumption ~5 W (system) EKI-9508E-MH: 72/96/110 V<sub>DC</sub> Power Input EKI-9508E-ML: 24/48 Vpc Operating Voltage EKI-9508E-MH: 50.4~137.5 Vpc EKI-9508E-ML: 16.8~60 VDC Dual inputs Supports Overload Current 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	

IEC 60068-2-31

EN 50155; EN50121-3-2

IFC 61373

Shock Freefall

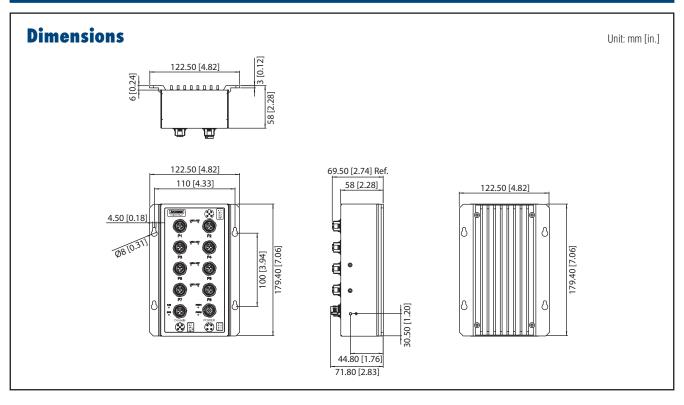
- Vibration
- Rail Traffic

#### L2 Features

- L2 MAC Address 8K Jumbo Frame 9 K B VLAN Group
- VLAN
- Port Mirroring
- IP Multicast
- Storm Control Spanning Tree

4K (VLAN ID 1~4094) MAC-based VLAN, Protocol-based VLAN, IP subnet-based VLAN, port-based VLAN, Q-in-Q (VLAN stacking), GVRP Per port, multi-source port IGMP snooping v1/v2/v3, MLD snooping, IGMP immediate leave Broadcast, multicast, unknown unicast IEEE 802.1D-STP, IEEE 802.1s-MSTP, IEEE 802.1w-RSTP, X-Ring Pro

## EKI-9508E-MH EKI-9508E-ML



#### QoS

• Priority Queue Scheduling SWW, SP

CoS

Trunking

Egress rate limit

- Class of Service
- Rate Limiting
- Link Aggregation

#### Security

- Port Security
  Si
- Authentication
- ACL
- Advanced Security

#### Management

- DHCP
- Access
- Security Access
- Software Upgrade
- NTP

#### **IPv6 Features**

- IPv4/IPv6
- IPv6

- Static, dynamic 802.1x (port-based, MAC-based), RADIUS, TACACS+ 1K rules IP source guard, ARP inspection, DHCP snooping
- IF Source guard, And Inspection, DHCP Shoopin

IEEE 802.1p-based CoS, IP TOS, DSCP-based

IEEE 802.3ad Dynamic Port Trunking, Static Port

- Client, server, relay, option 66/67/82 SNMP v1/v2c/v3, WEB, Telnet, RMON, standard MIB, private MIB SSH 2.0, SSL
- TFTP, HTTP, dual image NTP client
- IPv4/IPv6 dual protocol stack HTTP, SSH, Telnet, TFTP SNTP, SMTP

## **Ordering Information**

- EKI-9508E-MH-AE
- EKI-9508E-ML-AE
- Layer 2 managed switch, 8 x M12 fast Ethernet, 72/96/110  $V_{\rm DC}$  dual power input Layer 2 managed switch, 8 x M12 fast Ethernet, 24/48  $V_{\rm DC}$  dual power input

## Accessories

PN		Description
OPT1-M12-CRP-4MD	5	Phoenix Contact M12 D-code 4 pin Male crimp type connector
OPT1-M12-CRP-5MA	5	Phoenix Contact M12 A-code 5 pin Male crimp type connector
OPT1-M12-CRP-4FA	5	Phoenix Contact M12 A-code 4 pin Female crimp type connector
0PT1-M12C-4MD-150R	$\bigcirc$	M12 D-code 4 pin Male to RJ45, cable length:1.5m
OPT1-M12C-5MA-DB9	9	M12 A-code 5 pin Male to DB9 console, cable length:1.5m
0PT1-M12C-4FA-100		M12 A-code 4 pin Female to 1m cable
1990023703S000	98	M12 waterproof CAP (1pc.)