# EKI-9508G-MH EKI-9508G-ML

# EN 50155 8-Port M12 Managed Ethernet Switch 72/96/110 $V_{\text{DC}}$

# EN 50155 8-Port M12 Managed Ethernet Switch 24/48 V<sub>nc</sub>



### **Features**

- Complies with EN50155
- 8 port M12 X-coded 10/100/1000Mbps ports
- Power input
   EKI-9508G-MH: 72/96/110 V<sub>DC</sub>
   EKI-9508G-ML: 24/48 V<sub>DC</sub>
- Operating Voltage
   EKI-9508G-MH: 50.4~137.5 V<sub>DC</sub>
   EKI-9508G-ML: 16.8~60 V<sub>DC</sub>
- 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-9508G-MH & EKI-9508G-ML is a Managed Ethernet switch, it provides 8 x Gigabit Ethernet M12 X-code interface. EKI-9508G-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**

Interf	iace	
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I/O Port 8 x 10/100/1000 BASE-T M12 X-Coded
 Console Port M12 A-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, R.M., SYS

#### **Environment**

• Operating Temperature  $-40 \sim 70^{\circ}\text{C}$ • Storage Temperature  $-40 \sim 85^{\circ}\text{C}$ 

• Ambient Relative Humidity 5 ~ 95% (non-condensing)

#### **Power**

Power Consumption ~5 W (system)

■ **Power Input** EKI-9508G-MH: 72/96/110 V<sub>DC</sub> EKI-9508G-ML: 24/48 V<sub>DC</sub>

 $\begin{array}{ll} \bullet \quad \text{Operating Voltage} & \quad \text{EKI-9508G-MH: } 50.4\text{--}137.5 \ \text{V}_{\text{DC}} \\ & \quad \text{EKI-9508G-ML: } 16.8\text{--}60 \ \text{V}_{\text{DC}} \\ \end{array}$ 

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 8KJumbo Frame 9 KB

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

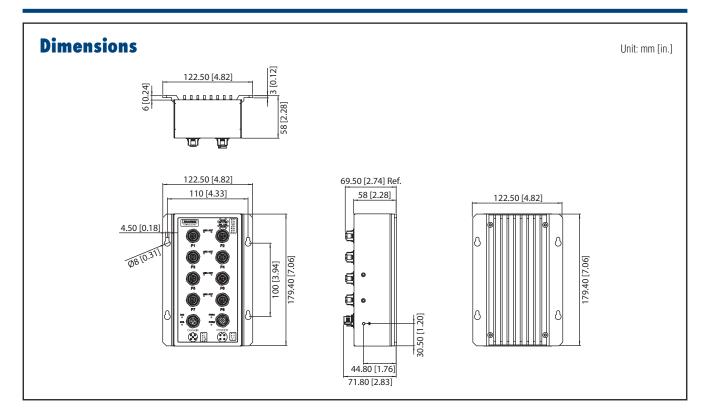
• Port Mirroring Per port, multi-source port

• IP Multicast IGMP snooping v1/v2/v3, MLD snooping,

IGMP immediate leave

Storm Control Broadcast, multicast, unknown unicast
 Spanning Tree IEEE 802.1D-STP, IEEE 802.1s-MSTP, IEEE

802.1w-RSTP, X-Ring Pro



#### QoS

• Priority Queue Scheduling SWW, SP

• 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

- ACL

Port Security Static, dynamic

Authentication
 802.1x (port-based, MAC-based), RADIUS,

TACACS+ 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-9508G-MH-AE Layer 2 Managed Switch, 8

Layer 2 Managed Switch, 8 x M12 Gigabit Ethernet,

72/96/110 V<sub>DC</sub> dual power input **EKI-9508G-ML-AE**Layer 2 Managed Switch, 8 x M1

Layer 2 Managed Switch, 8 x M12 Gigabit Ethernet,  $24/48\ V_{DC}$  dual power input

## Accessories

PN		Description	
OPT1-M12-CRP-8MX		Phoenix Contact M12 X-code 8 pin Male crimp type connector	
OPT1-M12-CRP-5MA		Phoenix Contact M12 A-code 5 pin Male crimp type connector	
OPT1-M12-CRP-4FA		Phoenix Contact M12 A-code 4 pin Female crimp type connector	
OPT1-M12C-8MX-150R		M12 X-code 8 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	
OPT1-M12C-4FA-100	Q\	M12 A-code 4 pin Female to 1m cable	
1990023703S000	98	M12 waterproof CAP (1pc.)	