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

EN 50155 8-Port M12 Managed Ethernet Switch 72/96/110 V$_{DC}$

EN 50155 8-Port M12 Managed Ethernet Switch 24/48 V$_{DC}$

CE FCC

Features

- Complies with EN50155
- 8 port M12 X-coded 10/100/1000Mbps ports
- Power input
  EKI-9508G-MH: 72/96/110 V$_{DC}$
  EKI-9508G-ML: 24/48 V$_{DC}$
- Operating Voltage
  EKI-9508G-MH: 50.4~137.5 V$_{DC}$
  EKI-9508G-ML: 16.8~60 V$_{DC}$
- X-Ring Pro supports rapid and predictable convergence
- 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-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

Interface

- **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** — 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, R.M., SYS

Environment

- **Operating Temperature** — -40 ~ 70°C
- **Storage Temperature** — -40 ~ 85°C
- **Ambient Relative Humidity** — 10 ~ 95% (non-condensing)

Power

- **Power Consumption** — ~5 W (system)
- **Power Input** — EKI-9508G-MH: 72/96/110 V$_{DC}$
  EKI-9508G-ML: 24/48 V$_{DC}$
- **Operating Voltage** — EKI-9508G-MH: 50.4~137.5 V$_{DC}$
  EKI-9508G-ML: 16.8~60 V$_{DC}$
  Dual inputs Supports Overload Current Protection
  Supports Reverse Polarity Protection
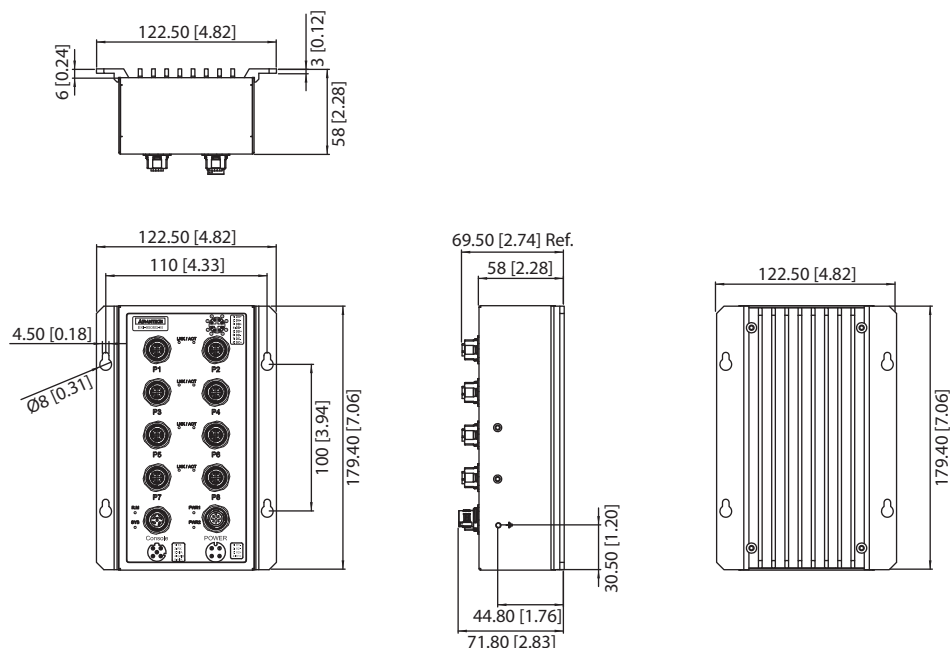
Certification

- **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
- **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

Last updated: 2-Nov-2020

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]

P1   P2

P3   P4

P5   P6

P7   P8

Console   POWER

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]

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

- **Port Security** Static, dynamic
- **Authentication** 802.1x (port-based, MAC-based), RADIUS, TACACS+
- **ACL** 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 x M12 Gigabit Ethernet, 72/96/110 V_{DC} dual power input
- **EKI-9508G-ML-AE** 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		M12 A-code 5 pin Male to DB9 console, cable length:1.5m
OPT1-M12C-4FA-100		M12 A-code 4 pin Female to 1m cable
1990023703S000		M12 waterproof CAP (1pc.)