EKI-9508G-MPH
EKI-9508G-MPL

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

Features

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

CE FCC

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-9508G-MPH & EKI-9508G-MPL are managed PoE Ethernet switches that provide 8 x Gigabit Ethernet M12 X-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-9508G-MPH/ MPL 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 10/100/1000 BASE-T M12 X-Coded
- **Console port**   M12 A-Coded
- **Power Connector**   M12 A-Coded

Physical

- **Enclosure**   Metal Shell
- **Protection Class**   IP 40
- **Installation**   Wall Mount
- **Dimensions (W x D x H)**   122.5 x 179.4 x 71.8 mm
- **Weight**   1.3 kg

LED Display

- **System LEDs**   PWR1, PWR2, R.M., 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 Watts (System)
- **PoE Power Budget**   EKI-9508G-MPH: 90 Watts
  EKI-9508G-MPL: 60 Watts
- **Power Input**   EKI-9508G-MPH: 72/96/110 V$_{DC}$
  EKI-9508G-MPL: 24/48 V$_{DC}$
- **Operating Voltage**   EKI-9508G-MPH: 50.4~137.5 V$_{DC}$
  EKI-9508G-MPL: 16.8~60 V$_{DC}$
  Dual inputs Supports Overload Current
  Protection Supports Reverse Polarity Protection
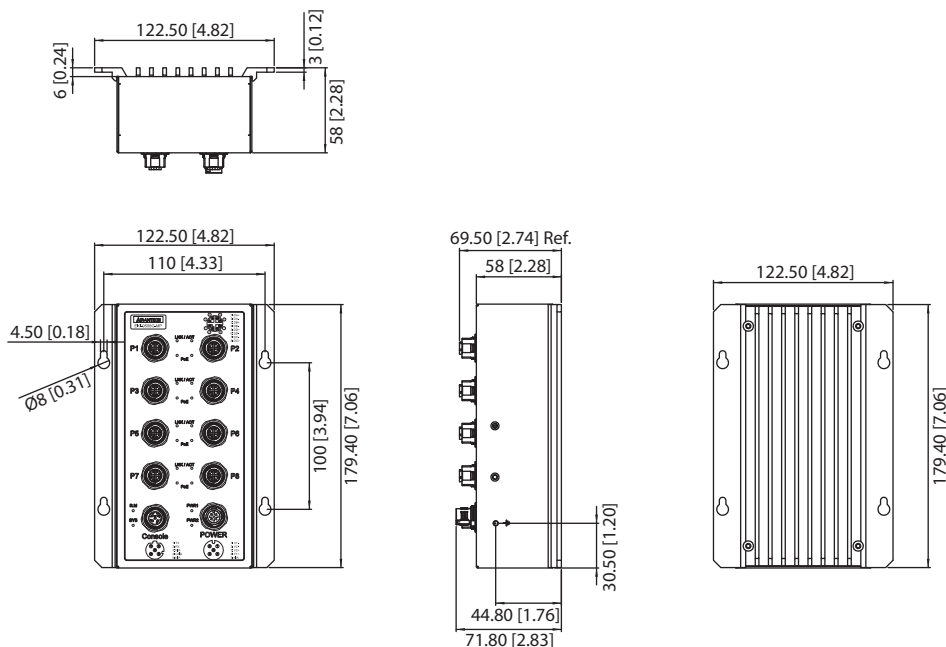
Certification

- **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**   EN50155; EN50121-3-2

L2 Features

- **L2 MAC Address**   8K
- **Jumbo Frame**   9KB
- **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
- **Redundancy Protocol**   IEEE802.1D-STP, IEEE802.1s-MSTP, IEEE802.1w-RSTP, X-Ring Pro

ADVANTECH | **Industrial Ethernet Solutions**

All product specifications are subject to change without notice.   Last updated: 9-Nov-2018

Dimensions

Unit: mm [inch]

QoS

- **Priority Queue Scheduling** WRR (Weighted Round Robin), SP (Strict Priority)
- **Class of Service** IEEE802.1p based CoS, IP TOS, DSCP based CoS
- **Rate Limiting** Egress Rate limit
- **Link Aggregation** IEEE802.3ad 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-MPH-AE** Layer 2 Managed Switch, 8 x M12 Gigabit Ethernet with PoE/PoE+, 72/96/110 VDC dual power input
- **EKI-9508G-MPL-AE** Layer 2 Managed Switch, 8 x M12 Gigabit Ethernet with PoE/PoE+, 24/48 VDC dual power input