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

EN50155 8-Port M12 Managed Ethernet Switch 72/96/110 V_{DC}
EN50155 8-Port M12 Managed Ethernet Switch 24/48 V_{DC}

CE FCC

Features

- Complies with EN50155
- 8 M12 D-coded 10/100Mbps ports
- Power input
  EKI-9508E-MH: 72/96/110 V_{DC}
  EKI-9508E-ML: 24/48 V_{DC}
- Operating Voltage
  EKI-9508E-MH: 50.4~137.5 V_{DC}
  EKI-9508E-ML: 16.8~60 V_{DC}
- X-Ring Pro supports rapid and predictable convergence
- M12 connector with IP40 protection
- Operating temperature range -40 ~ 70°C

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-9508E-MH & EKI-9508E-ML is a Managed Ethernet switch that provides 8 x Fast Ethernet M12 D-code interface for all kinds of Ethernet connection. The EKI-9508E-MH/ ML features a "slim" design which can be easy deployed with its slender size and let network deployment become easier in crowded carriage/ cabinet.

Specifications

Interface

I/O Port	8 x 10/100BASE-T M12 D-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-9508E-MH: 72/96/110 V_{DC} EKI-9508E-ML: 24/48 V_{DC}
Operating Voltage	EKI-9508E-MH: 50.4~137.5 V_{DC} EKI-9508E-ML: 16.8~60 V_{DC} Dual inputs Supports Overload Current Protection Supports Reverse Polarity Protection

Certification

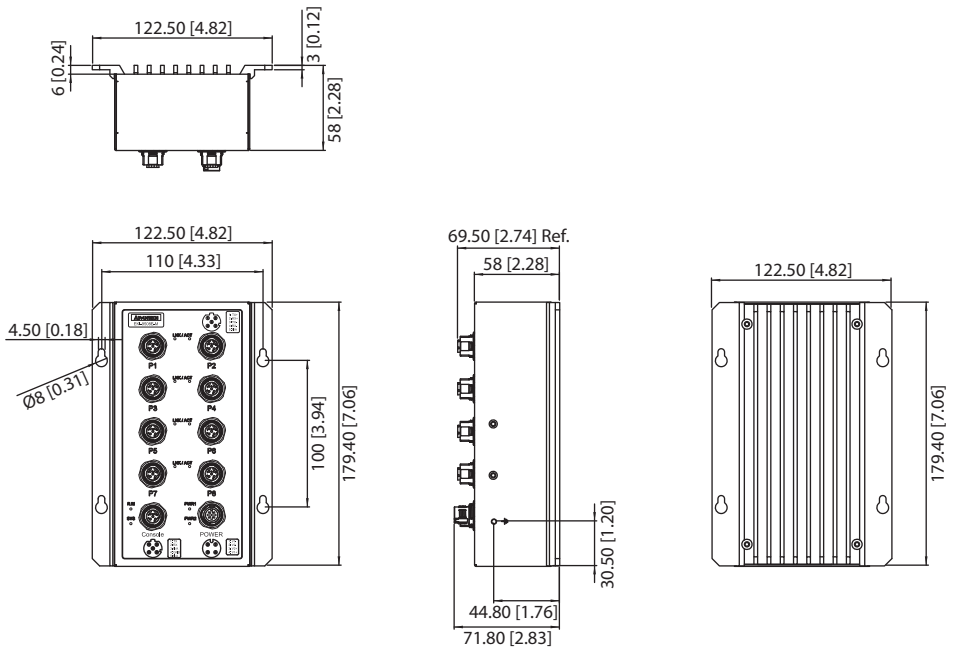
EMI	FCC Part 15 Subpart B Class A CE EN55032 (CISPR) EN55024 Class A
EMS	EN61000-4-2 (ESD), EN61000-4-3 (RS), EN61000-4-4 (EFT), EN61000-4-5 (surge), EN61000-4-6 (CS)
Shock	IEC 61373
Freefall	IEC 60068-2-32
Vibration	IEC 61373
Rail Traffic	EN50155; EN50121-3-2

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	IEEE802.1D-STP, IEEE802.1s-MSTP, IEEE802.1w-RSTP, X-Ring Pro

Dimensions

Unit: mm [in.]



QoS

- **Priority Queue Scheduling** SWW, SP
- **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-9508E-MH-AE** Layer 2 managed switch, 8 x M12 fast Ethernet, 72/96/110 V_{DC} dual power input
- **EKI-9508E-ML-AE** Layer 2 managed switch, 8 x M12 fast Ethernet, 24/48 V_{DC} dual power input