EKI-9508E-MH
EKI-9508E-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$_{DC}$

Features

- Complies with EN50155

- 8 port 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 IP50 protection

- Operating temperature of -40 ~ 70°C

CE 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	8 x 10/100BASE-T M12 D-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 ~ 70°C
Storage Temperature	-40 ~ 85°C
Ambient Relative Humidity	5 ~ 95% (non-condensing)

Power

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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 60068-2-31
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

Dimensions

Unit: mm [in.]
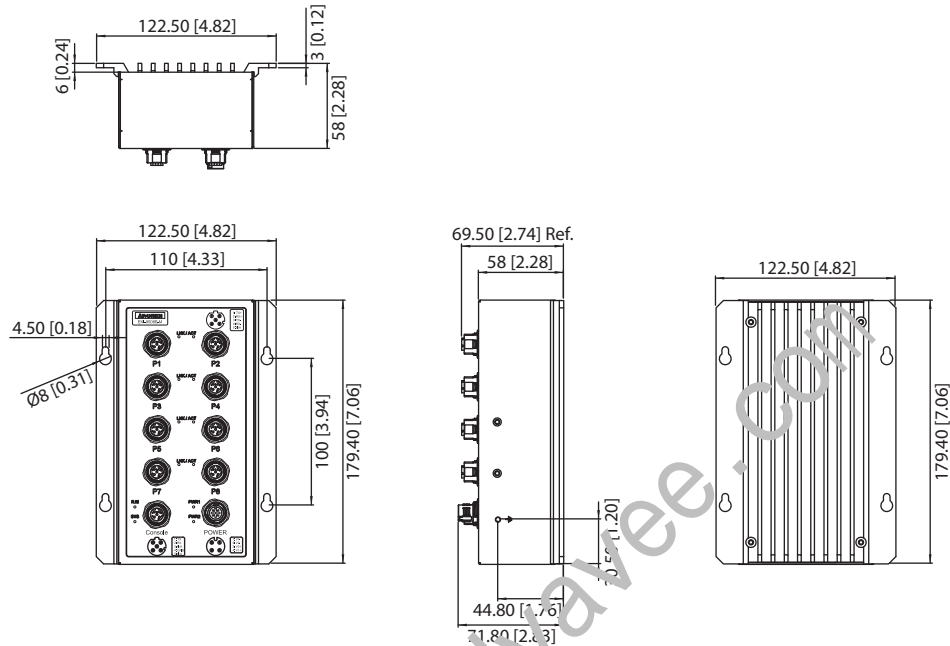
QoS

- **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-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

Accessories

PN		Description
OPT1-M12-CRP-4MD		Phoenix Contact M12 D-code 4 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-4MD-150R		M12 D-code 4 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.)