EKI-9508 Series

EN 50155 8-port Ethernet Switch



Features

- M12 connector with IP67 rugged housing
- Complies with EN50155 & EN50121-3-2
- Complies with EN45545-2 & EN61373
- Supports PoE IEEE802.3af/at(PoE model)
- Wide nominal power input range: 24~110V_{DC} Operating power input range: 16.8~137.5V_{DC}
- Compact size to fit in different narrow spaces
- Operating temperature:-40 ~ 70°C
- PoE/ non-PoE /Fast Ethernet/ Gigabit Ethernet/ Managed/ Unmanaged options available

Introduction

EKI-9508 series switch is designed for railway application, with rugged and high EMC performance. EKI-9508 series is the suitable networking solution for rolling stock and wayside applications. It provides M12 connectors for Ethernet/ console/ power-input) connections to ensure tight & robust connectivity, to guarantee reliable operation against environmental disturbances, it complies with IEC61373 vibration and shock for rolling stock application. The portfolio of EKI-9508 series provides multiple options, depends on user's demand, it has Managed type or Unmanaged type, Fast Ethernet or Gigabit Ethernet solutions, with IEEE802.3af/at PoE function (PoE model only), it provides up to total 90Watts power budget for P.D. devices (such as camera, IP-phone and wireless access point).

EKI-9508 series features a "compact" designed, with the IP67 rugged housing and the ample pitch connectors that can easy connect/ disconnect cables without interference to prevent the human error within the harsh industry and narrow environment. With the "short vertical height" dimension, it could be easily deployed/installed in the cabinet or ceiling partition and integrate mass Ethernet connection in one box.

Specifications

Interface

Ethernet Port* M12 4pin D-coded for Fast Ethernet (10/100BASE-T) M12 8pin X-coded for Gigabit Ethernet (10/100/1000BASE-T) Console port M12 5pin A-Coded (Management model only) Power Connector M12 5pin A-coded

*See the port options from ordering information

Physical

Enclosure Die-cast zinc front panel and extruded aluminum chassis Protection Class

Wall Mount Installation

160 x 100 x 70 mm (W x H x D) **Dimensions**

LED Display

System LEDs PWR1, PWR2, SYS.

Alarm & R.M. (Management model only)
Data, PoE(PoE model only)

Port LED

Environment

-40 ~ 70°C (-40 ~ 158°F) -40 ~ 85°C (-40 ~ 185°F) **Operating Temperature** Storage Temperature Ambient Relative Humidity 5~95% (non-condensing)

Power (non-PoE Model)

Power Consumption

24/28/36/48/72/96/110V_{DC} Nominal Input voltage

16.8~137.5V_{DC} Operating range Over current protection

Reverse polarity protection Yes

Power (PoE Model)

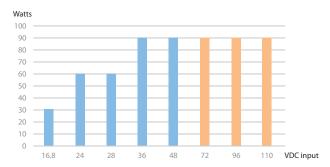
Power Consumption 15 Watts

24/28/36/48/72/96/110Vpc Nominal Input voltage

Operating range 16.8~137.5V_{DC}

Reverse polarity protection Yes Over current protection

PoE Power budget



Certification

Freefall

Safety EN62368-1

FMC EMS

CE, EN55011/ 55032/ 55035; FCC Part 15 Subpart B class A EN61000-4-2 (ESD); EN61000-4-3 (RS); EN61000-4-4 (EFT);

EN61000-4-5 (Surge); EN61000-4-6 (CS)

Shock EN61373 Vibration FN61373 IEC60068-2-31

Railway EN50155, EN 50121-3-2

Fire protection EN45545 EN61000-6-4, EN61000-6-2

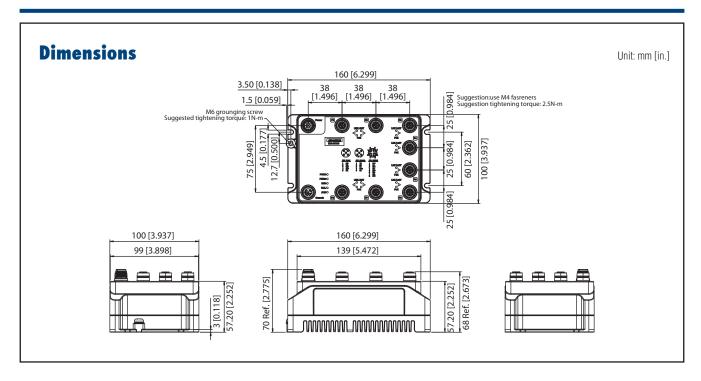
Switch Properties (Management model only)

DRAM 128MB Flash 32MB

Max. IGMP group Max static VLANs 256 256

VLAN ID range 1-4094 ЯK MAC table

10KB Jumbo frame 4.1MB Packet buffer Max priority queues



L2 Features (Management model only)

 L2 MAC Address 10KB

Jumbo Frame VLAN Group 256 (VLAN ID 1~4094) VLAN 802.1Q VLAN, GVRP Port Mirroring Per port, Multi-source port

IGMP Snooping v1/v2/v3, MLD Snooping, IGMP Immediate IP Multicast

Broadcast, Multicast, Unknown unicast IEEE 802.1D-STP, IEEE 802.1s-MSTP, Storm Control Redundancy Protocol IEEE 802.1w-RSTP, X-Ring Pro

QoS (Management model only)

Priority Queue Scheduling WRR (Weighted Round Robin),

Class of Service

SP (Strict Priority)
IEEE 802.1p based CoS, IP TOS, DSCP based CoS
Egress Rate limit

 Rate Limiting
 Link Aggregation IEEE 802.3ad Dynamic Port Trunking, Static Port Trunking

Security (Management model only)

Port Security Static, Dynamic

802.1x (Port-Based, MAC-Based), RADIUS, TACACS+ IP Source Guard. Access control list Authentication

Advanced Security

Management (Management model only)

■ DHCP

Client, Server, Option 66/67 SNMP v1/v2c/v3, WEB, Telnet, RMON, Standard MIB, Private Access

MIB SSH 2.0, SSL Security Access Software Upgrade TFTP, HTTP, Dual Image NTP server/client

Accessories

PN		Description	
OPT1-M12-CRP-4MD	5	Phoenix Contact M12 D-code 4 pin Male crimp type connector	
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-M12C-4MD-150R	0	M12 D-code 4 pin Male to RJ45, cable length:1.5m	
OPT1-M12C-8MX-150R		M12 X-code 8 pin Male to RJ45, cable length:1.5m	
OPT1-M12C-5MA-DB9	0	M12 A-code 5 pin Male to DB9 console, cable length:1.5m	
OPT1-M12C-5FA-100	Q,	M12 A-code 5 pin Female to 1m cable	
1990023703S000	98	M12 waterproof CAP (1pc.)	

Ordering Information

Part number	Management model	10/100BASE-T	10/100/1000BASE-T	PoE ports
EKI-9508E-MPW-B	Yes	8 (P1-P8)		8 (P1-P8)
EKI-9508G-MPW-B	Yes		8 (P1-P8)	8 (P1-P8)
EKI-9508E-PW-B		8 (P1-P8)		8 (P1-P8)
EKI-9508G-PW-B			8 (P1-P8)	8 (P1-P8)
EKI-9508E-MW-B	Yes	8 (P1-P8)		
EKI-9508G-MW-B	Yes		8 (P1-P8)	
EKI-9508E-W-B		8 (P1-P8)		
EKI-9508G-W-B			8 (P1-P8)	