EKI-9508 Series

EN 50155 8-port Ethernet Switch



M12 4pin D-coded for Fast Ethernet (10/100BASE-T)

M12 5pin A-Coded (Management model only)

M12 5pin A-coded

Die-cast zinc front panel and extruded aluminum chassis

PWR1, PWR2, SYS.

-40 ~ 70°C (-40 ~ 158°F) -40 ~ 85°C (-40 ~ 185°F)

24/28/36/48/72/96/110VDC

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

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

IP67 Wall Mount

1.8 ka

M12 8pin X-coded for Gigabit Ethernet (10/100/1000BASE-T)

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: 24~110VDC Operating power input range: 16.8~137.5VDC
- 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*
- Console port
- Power Connector

*See the port options from ordering information

Physical

- Enclosure
- Protection Class
- Installation
- Dimensions
- Weight

LED Display

System LEDs

Port LED

- Environment
- **Operating Temperature**
- Storage Temperature
- Ambient Relative Humidity 5~95% (non-condensing)

Power (non-PoE Model)

- Power Consumption
- Nominal Input voltage **Operating** range
- Over current protection
- Yes **Reverse polarity protection** Yes

Power (PoE Model)

Operating range

Power Consumption 15 Watts Nominal Input voltage 16.8~137.5VDC

8 Watts

16.8~137.5V_{DC}

- Reverse polarity protection Yes
- Over current protection

PoE Power budget



EN61000-6-4, EN61000-6-2

Certification

-	Safety
	EMC
•	EMS
-	Shock
•	Vibration
•	Freefall
•	Railway
•	Fire protection

EN62368-1 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) EN61373 EN61373 IEC60068-2-31 EN50155, EN 50121-3-2 EN45545

Other

Switch Properties (Management model only)

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DRAM	128MB
Flash	32MB
Max. IGMP group	256
Max static VLANs	256
VLAN ID range	1-4094
MAC table	8K
Jumbo frame	10KB
Packet buffer	4.1MB
Max priority queues	8

- Max priority queues

Yes

24/28/36/48/72/96/110Vpc

EKI-9508 Series



L2 Features (Management model only)

L2 MAC Address

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VLAN (. VLAN

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C Address	8K
Frame	10KB
Group	256 (VLAN
	802.10 VL

Port	Mirroring	

Storm Control

IP Multicast

256 (VLAN ID 1~4094)
802.1Q VLAN, GVRP
Per port, Multi-source port
IGMP Snooping v1/v2/v3, MLD Snooping, IGMP Immediate
leave
Broadcast, Multicast, Unknown unicast
IFFE ADD ID OTD IFFE ADD I MOTD

IEEE 802.3ad Dynamic Port Trunking, Static Port Trunking

- **Redundancy Protocol** IEEE 802.1D-STP, IEEE 802.1s-MSTP, IEEE 802.1w-RSTP, X-Ring Pro
- **QoS (Management model only)**
- Priority Queue

Scheduling WRR (Weighted Round Robin),

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

- Rate Limiting
 Link Aggregation

Security (Management model only)

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

Management (Management model only)

DHCP Access

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- Client, Server, Option 66/67 SNMP v1/v2c/v3, WEB, Telnet, RMON, Standard MIB, Private MIB SSH 2.0, SSL
- Security Access Software Upgrade TFTP, HTTP, Dual Image
- . NTP

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	S	Phoenix Contact M12 X-code 8 pin Male crimp type connector	
OPT1-M12-CRP-5MA	5	Phoenix Contact M12 A-code 5 pin Male crimp type connector	
OPT1-M12C-4MD-150R	$\langle O$	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	9	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)	