EKI-9510E-2GMPH **EKI-9**510E-2GMPL

EN 50155 10-Port Managed PoE M12 Ethernet Switch 72/96/110 V_{DC} EN 50155 10-Port Managed PoE M12 Ethernet Switch 24/48 V_{DC}



Features

- Complies with EN50155
- 8 x M12 D-Coded 10/100Mbps PoE ports + 2 x M12 X-Coded 10/100/1000Mbps ports with Bypass function
- Power Input EKI-9510E-2GMPH: 72/96/110 V_{DC} EKI-9510E-2GMPL: 24/48 V_{DC}
- Operating Voltage
 EKI-9510E-2GMPH: 50.4~137.5 V_{DC}
 EKI-9510E-2GMPL: 16.8~60 V_{DC}
- X-Ring Pro supports rapid and predictable convergence
- 8-port PoE support IEEE802.3 at/af
- M12 connector with IP40 protection

C € 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-9510E-2GMPH & EKI-9510E-2GMPL is a Managed PoE Ethernet switch, it provides 8 x Fast Ethernet M12 D-code interface with IEEE802.3at/at PoE(Power Over Ethernet) function. PoE ports can total provide up to 100Watts power budget for P.D. devices (such as camera, IP-phone and wireless access point). It also provides 2 x Gigabit Ethernet M12 X-code interface with Bypass function, to increase the reliability of the network. EKI-9510E-2GMPH/ MPL features a "flat" design, can be easy deployed with its slender size and let network deployment more simple in crowded carriage/ cabinet.

Specifications

interrace	
I/O Port	8 x M12 D-Coded 10/100Mbps PoE ports +
	2 x M12 X-Coded 10/100/1000Mbps ports with
	Rypass function

Console port
 Power Connector
 M12 A-Coded
 M12 A-Coded

Physical

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Enclosure Aluminum Shell
 Protection Class IP 40
 Installation Wall Mount
 Dimensions (W x D x H) 216 x 132 x 59.3 mm

Weight 1.5kg

LED Display

System LEDs
 PWR1, PWR2, SYS, R.M., Alarm
 Port LED
 Data, PoE

Environment

Operating Temperature -40 ~ 70°C (-40 ~ 158°F)
 Storage Temperature -40 ~ 85°C (-40 ~ 185°F)
 Ambient Relative Humidity 10~95% (non-condensing)

Power

Power Consumption 10 Watts

EKI-9510E-2GMPL: 16.8~60 V_{DC}

Dual inputs Supports Overload Current Protection Supports Reverse Polarity Protection

Certification

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

• **Certificate** EN 50155; EN50121-3-2

L2 Features

L2 MAC Address 8KJumbo Frame 9KB

VLAN Group 256 (VLAN ID 1-4093)
 VLAN 802.1Q VLAN, 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 IEEE 802.1D-STP, IEEE 802.1s-MSTP, IEEE 802.1w-RSTP, X-Ring Pro

OoS

Priority Queue Scheduling WRR (Weighted Round Robin),

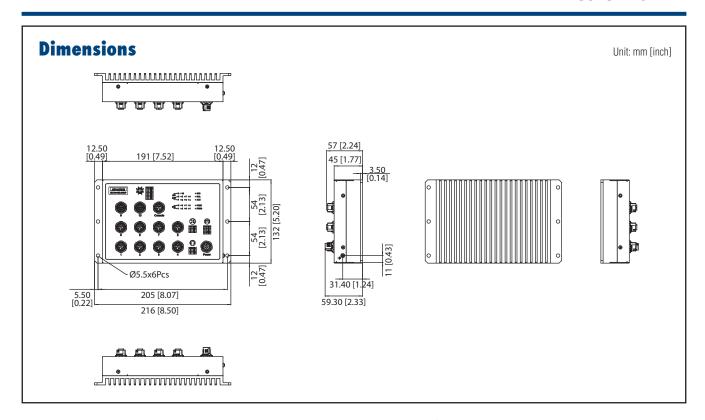
SP (Strict Priority)

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+

Advanced Security
 IP Source Guard

Management

■ **DHCP** Client, Server, Option 66/67

SNMP v1/v2c/v3, WEB, Telnet, RMON, Standard MIB,

Private MIB

Security Access
 Software Upgrade
 SSH 2.0, SSL
 TFTP, HTTP, Dual Image

• NTP NTP server/client

Ordering Information

■ EKI-9510E-2GMPH-AE 8 x M12 D-Coded PoE + 2 x M12 X-Coded Managed Ethernet Switch, 72/96/110V_{DC} duall power input

EKI-9510E-2GMPL-AE 8 x M12 D-Coded PoE + 2 x M12 X-Coded Managed Ethernet Switch, 24/48V_{DC} duall power input

Accessories

PN		Description	
OPT1-M12-CRP-4MD	6	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-M12-CRP-4FA		Phoenix Contact M12 A-code 4 pin Female 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	9	M12 A-code 5 pin Male to DB9 console, cable length:1.5m	
OPT1-M12C-4FA-100	Q\	M12 A-code 4 pin Female to 1m cable	
1990023703S000		M12 waterproof CAP (1pc.)	