

EKI-9510E-2GMPL

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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 10/100 Mbps PoE ports + 2 x M12 X-Coded 10/100/10000 Mbps ports
- 8-port PoE support IEEE802.3 at/af
- Power input
EKI-9510E-2GMPL: 72/96/110 V_{DC}
EKI-9510E-2GMPL: 24/48 V_{DC}
- X-Ring Pro supports rapid and predictable convergence
- Provides M12 connector with IP40 protection
- Complies EN50155 Tx operating temperature for -40 ~ 75°C

Introduction

EKI-9510E M12 Managed Ethernet Switch is designed for railway applications, including rolling stock. EKI-9510E switch uses M12 connectors to ensure tight, robust connections, and to guarantee reliable operation against environmental disturbances, such as vibration and shock. EKI-9510E provides 8 Fast Ethernet M12 D-Coded ports +2 Gigabit M12 X-Coded ports. The dual, isolated power input increases the reliability of your communications system. The -40 to 75°C operating temperature and IP40-rated waterproof enclosure allow deployment in harsh environments. Moreover, the EKI-9510E is compliant with the essential sections of EN 50155, EN50121-3-2 covering operating temperature, power input voltage, surge, ESD, and vibration, making the switches suitable for a variety of industrial applications.

Specifications

Interface

- I/O Port** 8 x 10/100 Mbps M12 D-Coded
2 x 10/100/100 Mbps M12 X-Coded
- Console port** M12 A-Coded
- Power Connector** M12 A-Coded

Physical

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

LED Display

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

Environment

- Operating Temperature** -40 ~ 75°C (-40 ~ 158°F)
- Storage Temperature** -40 ~ 85°C (-40 ~ 185°F)
- Ambient Relative Humidity** 10~ 95% (non-condensing)

Power

- Power Consumption** 10 Watts
- Power Input** EKI-9510E-2GMPL: 72/96/110 V_{DC} dual inputs
EKI-9510E-2GMPL: 24/48 V_{DC} dual inputs
- PoE Power Budget** EKI-9510E-2GMPL: 120 Watts
EKI-9510E-2GMPL :60 Watts

Certification

- EMI** FCC Part 15 Subpart B Class A
CE EN55022 (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

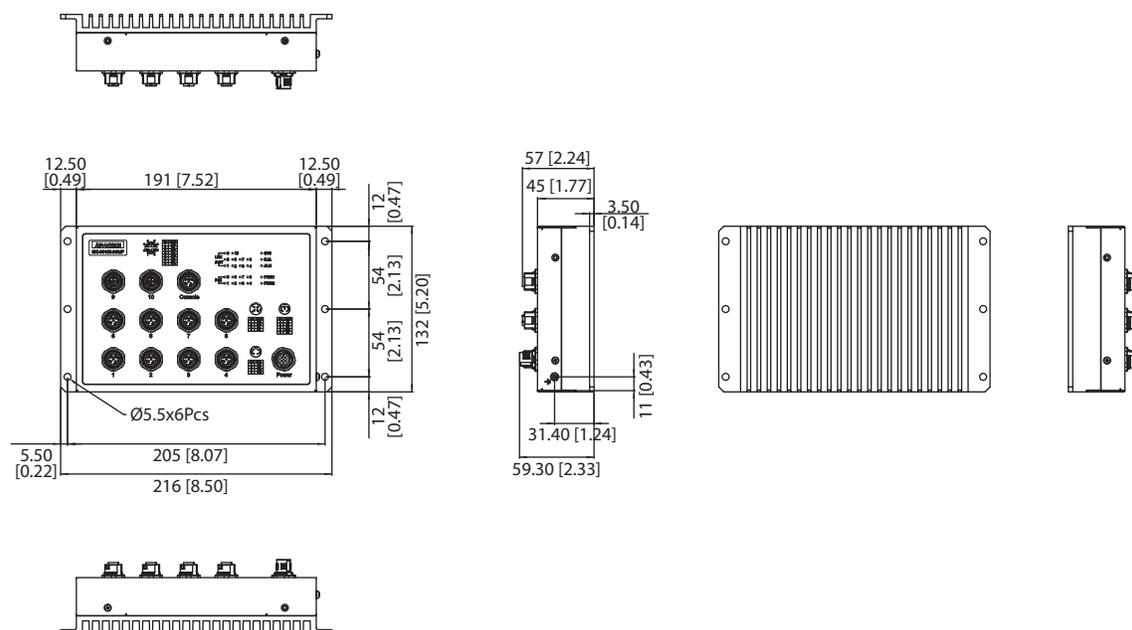
L2 Features

- L2 MAC Address** 8K
- Jumbo 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
- Spanning Tree** IEEE 802.1D-STP, IEEE 802.1s-MSTP,
IEEE 802.1w-RSTP, X-Ring Pro

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Dimensions

Unit: mm [inch]



- **QoS**
- **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
- **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 server/client

Ordering Information

- **EKI-9510E-2GMPL-AE** 8 x M12 D-Coded PoE + 2 x M12 X-Coded Managed Ethernet Switch, 72/96/110V_{DC} dual power input
- **EKI-9510E-2GMPL-AE** 8 x M12 D-Coded PoE + 2 x M12 X-Coded Managed Ethernet Switch, 24/48V_{DC} dual power input