EKI-9510E-2GMPH
EKI-9510E-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 10/100 Mbps PoE ports + 2 x M12 X-coded 10/100/1000 Mbps ports
- 8-port PoE support IEEE802.3 at/af
- Power input
- EKI-9510E-2GMPH: 72/96/110 V$_{DC}$
- EKI-9510E-2GMPL: 24/48 V$_{DC}$
- X-Ring Pro supports rapid and predictable convergence
- M12 connector with IP40 protection
- Wide operating temperature of -40 ~ 70°C

Introduction

The EKI-9510E M12 managed Ethernet switch is designed for railway applications, including rolling stock. It uses M12 connectors to ensure tight, robust connections and to guarantee reliable operation against environmental disturbances such as vibration and shock. The EKI-9510E provides 8 fast Ethernet M12 D-coded ports and 2 Gigabit M12 X-coded ports. The dual isolated power input increases the reliability of your communications system while the -40 to 70°C operating temperature and IP40-rated waterproof enclosure allow for deployment in harsh environments. Moreover, the EKI-9510E complies with the essential sections of EN 50155, EN50121-3-2 covering operating temperature, power input voltage, surge protection, ESD protection, and vibration protection, 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 10/100/1000 Mpbs 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 ~ 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
- **Power Input** — EKI-9510E-2GMPH: 72/96/110 V$_{DC}$ dual inputs
  EKI-9510E-2GMPL: 24/48 V$_{DC}$ dual inputs
- **PoE Power Pudget** — EKI-9510E-2GMPH: 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
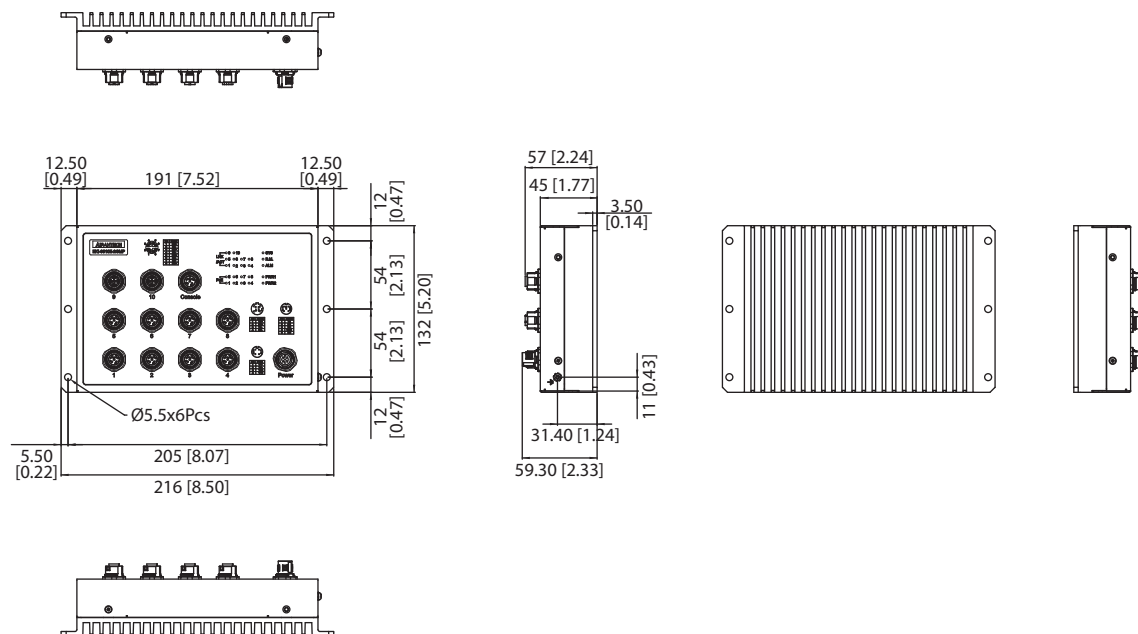- **Vibration** — IEC 61373
- **Certificate** — EN 50155; EN50121-3-2

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-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