

EKI-9510 Series

EN 50155 10-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
- Complies with IEC 62443-4-2

Introduction

EKI-9510 series switch is designed for railway application, with rugged and high EMC performance. EKI-9510 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-9510 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-9510 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** IP67
- **Installation** Wall Mount
- **Dimensions** 160 x 100 x 70 mm (W x H x D)
- **Weight** 1.8 kg

LED Display

- **System LEDs** PWR1, PWR2, SYS.
Alarm & R.M. (Management model only)
- **Port LED** Data, PoE (PoE model only)

Environment

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

Power (non-PoE Model)

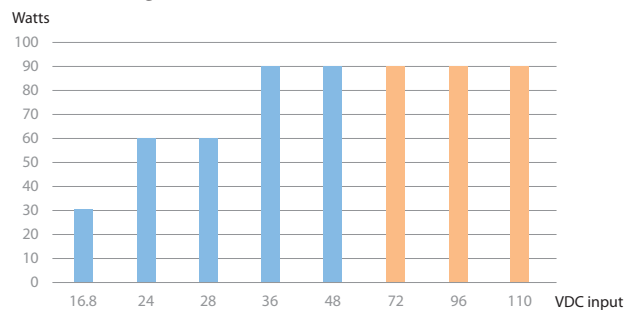
- **Power Consumption** 8 Watts
- **Nominal Input voltage** 24/28/36/48/72/96/110V_{DC}
- **Operating range** 16.8-137.5V_{DC}
- **Over current protection** Yes
- **Reverse polarity protection** Yes

Power (PoE Model)

- **Power Consumption** 15 Watts
- **Nominal Input voltage** 24/28/36/48/72/96/110V_{DC}
- **Operating range** 16.8-137.5V_{DC}
- **Over current protection** Yes
- **Reverse polarity protection** Yes

*Manage.

PoE Power budget



Certification

- **Safety** EN62368-1
- **EMC** CE, EN55011/ 55032/ 55035; FCC Part 15 Subpart B class A
- **EMS** EN61000-4-2 (ESD); EN61000-4-3 (RS); EN61000-4-4 (EFT); EN61000-4-5 (Surge); EN61000-4-6 (CS)
- **Shock** EN61373
- **Vibration** EN61373
- **Freefall** IEC60068-2-31
- **Railway** EN50155, EN 50121-3-2
- **Fire protection** EN45545
- **Cybersecurity** IEC 62443-4-2
- **Other** EN61000-6-4, EN61000-6-2

Switch Properties (Management model only)

- **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

