EKI-9510G-2GH
EKI-9510G-2GL

EN 50155 10-port Unmanaged M12 Ethernet Switch 72/96/110 V_{DC}

EN 50155 10-port Unmanaged M12 Ethernet Switch 24/48 V_{DC}

CE FCC

Features

- Complies with EN50155

- 8 x M12 X-Coded 10/100/1000Mbps ports + 2 x M12 X-Coded 10/100/1000Mbps ports with Bypass function

- Power Input
  EKI-9510G-2GH: 72/96/110 V_{DC}
  EKI-9510G-2GL: 24/48 V_{DC}

- Operating Voltage
  EKI-9510G-2GH: 50.4~137.5 V_{DC}
  EKI-9510G-2GL: 16.8~60 V_{DC}

- M12 connector with IP40 protection

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-9510G-2GH & EKI-9510G-2GL is a Unmanaged Ethernet switch, it provides 8 x Gigabit Ethernet M12 X-code interface. It also provides 2 x Gigabit Ethernet M12 X-code interface with Bypass function, to increase the reliability of the network. EKI-9510G-2GH/ L features a "flat" design, can be easy deployed with its slender size and let network deployment more simple in crowded carriage/ cabinet.

Specifications

Interface

- **I/O Port**   8 x 10/100/1000Mbps M12 X-Coded + 2 x M12 X-Coded 10/100/1000Mbps ports with Bypass function
- **Console port**   M12 A-Coded
- **Power Connector**   M12 A-Coded

Physical

- **Enclosure**   Aluminum Shell
- **Protection Class** IP 40
- **Installation**   Wall Mount
- **Dimensions (W x H x D)** 216 x 132 x 59.3 mm
- **Weight**   1.5kg

LED Display

- **System LEDs**   PWR1, PWR2, SYS, Alarm

Environment

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

Power

- **Power Consumption** 10 Watts
- **Power Input**   EKI-9510G-2GH: 72/96/110 V_{DC}
                         EKI-9510G-2GL: 24/48 V_{DC}
- **Operating Voltage** EKI-9510G-2GH: 50.4~137.5 V_{DC}
                         EKI-9510G-2GL: 16.8~60 V_{DC}
                         Dual inputs Supports Overload Current Protection
                         Supports Reverse Polarity Protection

Certification

- **EMI**   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
- **Vibration**   IEC 61373
- **Rail Traffic**   EN 50155; EN50121-3-2

L2 Features

- **L2 MAC Address**   8K
- **Jumbo Frame**   9KB

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All product specifications are subject to change without notice.   Last updated: 29-Mar-2022

Dimensions

Unit: mm [in.]

12.50 [0.49]   191 [7.52]   12.50 [0.49]
12 [0.47]
54 [2.13]
132 [5.20]
54 [2.13]
12 [0.47]
Ø5.5x6Pcs
5.50 [0.22]   205 [8.07]
216 [8.50]

57 [2.24]
45 [1.77]
3.50 [0.14]
11 [0.43]
31.40 [1.24]
59.30 [2.33]
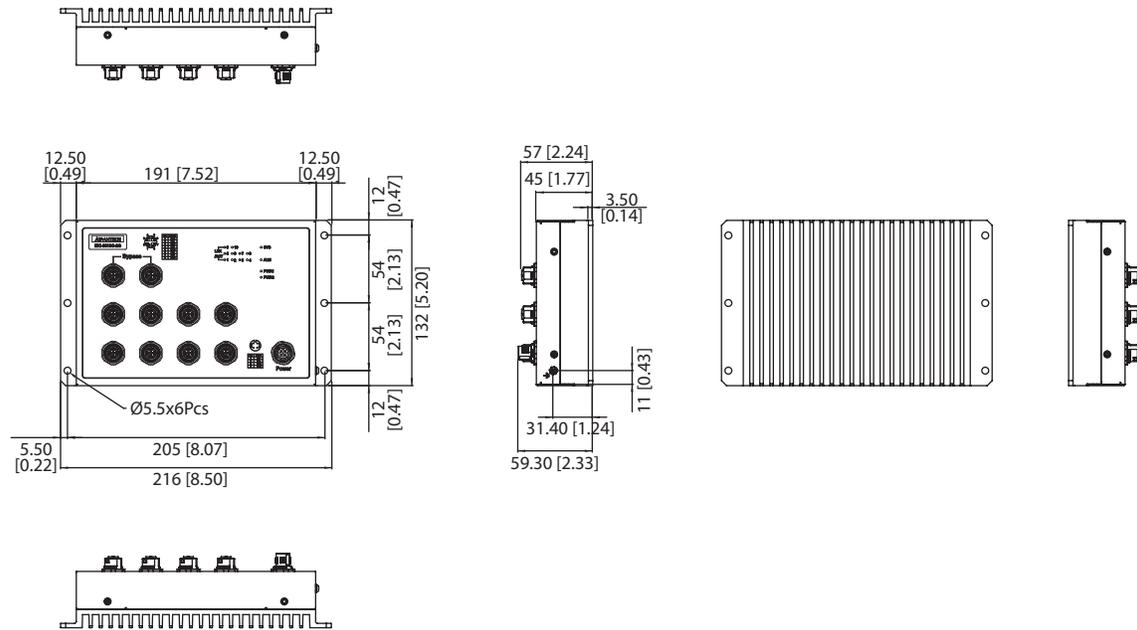
Ordering Information

- **EKI-9510G-2GH-AE** — 8 x M12 X-Coded + 2 x M12 X-Coded Unmanaged Ethernet Switch, 72/96/110VDC dual power input
- **EKI-9510G-2GL-AE** — 8 x M12 X-Coded + 2 x M12 X-Coded Unmanaged Ethernet Switch, 24/48VDC dual power input

Accessories

PN		Description
OPT1-M12-CRP-8MX		Phoenix Contact M12 X-code 8 pin Male crimp type connector
OPT1-M12-CRP-4FA		Phoenix Contact M12 A-code 4 pin Female crimp type connector
OPT1-M12C-8MX-150R		M12 X-code 8 pin Male to RJ45, cable length:1.5m
OPT1-M12C-4FA-100		M12 A-code 4 pin Female to 1m cable
1990023703S000		M12 waterproof CAP (1pc.)