EKI-9510G-2GMH
EKI-9510G-2GML

EN 50155 10-port Managed M12 Full
Giga Ethernet Switch 72/96/110 V$_{DC}$
EN 50155 10-port Managed M12 Full
Giga Ethernet Switch 24/48 V$_{DC}$

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-2GMH:72/96/110 V$_{DC}$
  EKI-9510G-2GML:24/48 V$_{DC}$

- Operating Voltage
  EKI-9510G-2GMH: 50.4~137.5 V$_{DC}$
  EKI-9510G-2GML: 16.8~60 V$_{DC}$

- X-Ring Pro supports rapid and predictable convergence

- M12 connector with IP40 protection

CE 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-9510G-2GMH & EKI-9510G-2GML is a Managed 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-2GMH/ ML 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 D x H)** 216 x 132 x 59.3 mm
- **Weight**   1.5kg

LED Display

- **System LEDs**   PWR1, PWR2, SYS, R.M., Alarm

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-9510G-2GMH: 72/96/110 V$_{DC}$
                          EKI-9510G-2GML: 24/48 V$_{DC}$
- **Operating Voltage**   EKI-9510G-2GMH: 50.4~137.5 V$_{DC}$
                          EKI-9510G-2GML: 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
- **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
- **Redundancy Protocol** IEEE 802.1D-STP, IEEE 802.1s-MSTP, IEEE 802.1w-RSTP, X-Ring Pro

QoS

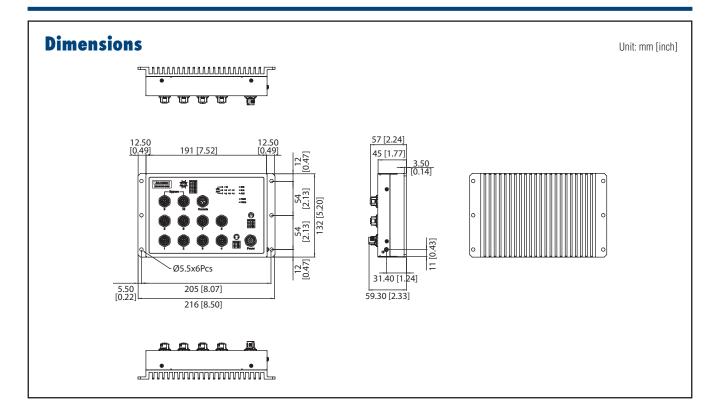- **Priority Queue**   Scheduling WRR (Weighted Round Robin), SP (Strict Priority)
- **Class of Service** IEEE 802.1p based CoS, IP TOS, DSCP based CoS
- **Rate Limiting**   Egress Rate limit
- **Link Aggregation** IEEE 802.3ad Dynamic Port Trunking, Static Port Trunking

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All product specifications are subject to change without notice.   Last updated: 5-Oct-2018

Dimensions

Unit: mm [inch]

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-9510G-2GMH-AE** — 8 x M12 X-Coded + 2 x M12 X-Coded Managed Ethernet Switch, 72/96/110V$_{DC}$ dual power input
- **EKI-9510G-2GML-AE** — 8 x M12 X-Coded + 2 x M12 X-Coded Managed Ethernet Switch, 24/48V$_{DC}$ dual power input