### EKI-9508E-MPH EKI-9508E-MPL

**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-9508E-MPH & EKI-9508E-MPL is a Managed PoE Ethernet switch, it provides 8 x Fast Ethernet M12 D-code interface with IEEE802.3af/at PoE (Power Over Ethernet) function. PoE ports can total provide up to 90Watts power budget for P.D. devices (such as camera, IP-phone and wireless access point). EKI-9508E-MPH/ MPL features a "slim" design, can be easy deployed with its slender size and let network deployment more simple in crowded carriage/ cabinet.

### Specifications

<table>
<thead>
<tr>
<th>Interface</th>
<th>8 x 10/100BASE-T M12 D-Coded</th>
</tr>
</thead>
<tbody>
<tr>
<td>Console port</td>
<td>M12 A-Coded</td>
</tr>
<tr>
<td>Power Connector</td>
<td>M12 A-Coded</td>
</tr>
</tbody>
</table>

**Physical**

- **Enclosure**: Metal Shell
- **Protection Class**: IP 40
- **Installation**: Wall Mount
- **Dimensions (W x D x H)**: 122.5 x 179.4 x 71.8 mm
- **Weight**: 1.3 kg

**LED Display**

- **System LEDs**: PWR1, PWR2, R.M., SYS, Data, PoE

**Environment**

- **Operating Temperature**: -40 ~ 70 °C
- **Storage Temperature**: -40 ~ 85 °C
- **Ambient Relative Humidity**: 10 ~ 95% (non-condensing)

**Power**

- **Power Consumption**: ~ 5 Watts (System)
- **PoE Power Budget**: EKI-9508E-MPH: 90 Watts, EKI-9508E-MPL: 60 Watts
- **Operating Voltage**: EKI-9508E-MPH: 50.4~137.5 Vdc, EKI-9508E-MPL: 16.8~60 Vdc

**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
- **Rail Traffic**: EN 50155; EN50121-3-2

**L2 Features**

- **L2 MAC Address**: 8K
- **Jumbo Frame**: 9KB
- **VLAN Group**: 4K (VLAN ID 1~4094)
- **VLAN**: Mac based VLAN, Protocol based VLAN, IP subnet based VLAN, Port based VLAN, Q in Q (VLAN Stacking), 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-STR, IEEE 802.1s-MSTP, IEEE 802.1w-RSTP, X-Ring Pro

All product specifications are subject to change without notice. Last updated: 24-Oct-2018
**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+
- **ACL**
  - 1K rules
- **Advanced Security**
  - IP Source Guard, ARP inspection, DHCP Snooping

**Management**
- **DHCP**
  - Client, Server, Relay, Option 66/67/82
- **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 client

**IPv6 Features**
- **IPv4/IPv6**
  - IPv4/IPv6 Dual Protocol Stack
- **IPv6**
  - HTTP, SSH, Telnet, TFTP, SNMP, SMTP

**Ordering Information**
- **EKI-9508E-MPH-AE**
  - Layer 2 Managed Switch, 8 x M12 Fast Ethernet with PoE/PoE+, 72/96/110 VDC dual power input
- **EKI-9508E-MPL-AE**
  - Layer 2 Managed Switch, 8 x M12 Fast Ethernet with PoE/PoE+, 24/48 VDC dual power input