EKI-3525M
4-port 10/100Mbps + 1-port 100FX Multi-mode Unmanaged Industrial Ethernet Switch

EKI-3525S
4-port 10/100Mbps + 1-port 100FX Single-mode Unmanaged Industrial Ethernet Switch

NEW

EKI-3525M   EKI-3525S

Features

- Supports IEEE 802.3az, Energy Efficient Ethernet standard
  - Automatically powers down ports that have no link
  - Budgets power output for different Ethernet cable length
- Support IEEE 802.1p QoS- VIP port setting
  - Ensures time sensitive data gets delivered efficiently, even during bursts of high data traffic. -Ensures video streaming through switch with high priority.
- Supports redundant 12 ~ 48 V$_{DC}$ power input and P-Fail relay
- In Loop detection
- Provides 1 x 100 Mbps Multi/Single-mode SC type fiber optic port (EKI-3525M/S)
- Provides broadcast storm protection
- Provides flexible mounting: DIN-rail and flat wall mounting

Introduction

The EKI-3525M/S are a new generation of products and have four 10/100 Mbps Ethernet ports, and one multi-mode or single-mode fiber-optic port. Using fiber-optics, you can prevent noise from interfering with your system and support high-speed (100 Mbps) and high-distance (up to 30 km) transmissions. A low power Ethernet design automatically adjusts power consumption by detecting the link status and cable length. Designed with one "VIP" port to get optimal bandwidth for media traffic through the VIP port users can experience better multimedia streaming performance through the prioritized bandwidth setting. The devices come with compact metal and plastic housing that is IP40 rated to protect against dusty industrial environments. The wide power input power (8.4 to 52.8 V$_{DC}$) is dedicated to operating in areas of unstable power and rugged environments. It also provides an event alarm and in the event of a power failure and connection loop, the integrated LED will activate the alarm to notify administrators.

Specifications

Communications

- **Standard**   IEEE 802.3, 802.3u, 802.3x, 802.1p, 802.3az
- **LAN**   10/100Base-T(X),100Base-FX
- **Transmission Distance** Ethernet: Up to 100 m
  Multi-mode Fiber: Up to 2 km (EKI-3525M)
  Single-mode Fiber: Up to 30 km (EKI-3525S)
- **Transmission Speed**   Up to 100 Mbps
- **Optical Fiber**   Multi-Mode (EKI-3525M)
  Wavelength:1310nm
  Tx Power: -14/-20 dBm
  Rx Sensitivity: -31 dBm
  Parameters: 50/125 um, 62.5/125 um
  Single-Mode (EKI-3525S)
  Wavelength: 1310 nm
  Tx Power: -8/-15 dBm
  Rx Sensitivity: -34 dBm
  Parameters: 9/125 um

Interface

- **Connectors**   4 x RJ45 ports, 1 x SC type fiber connector
  6-pin removable screw terminal (power & relay)
- **LED Indicators** P1, P2, P-Fail, Loop detection
  10/100T (X): Link/Activity, Speed

Switch Properties

- **MAC Table Size**   2K
- **Packet Buffer Size** 384K bit
- **Switch Fabric Speed** 1.0Gbps

Power

- **Power Consumption** Max. 2.1 W
- **Power Input**   12 ~ 48 V$_{DC}$ (8.4 ~ 52.8 V$_{DC}$) redundant dual inputs
- **Fault Output**   1 Relay Output

Mechanism

- **Dimensions (W x H x D)** 28.5 x 120 x 85.3 mm (1.02" x 4.73" x 3.35")
- **Enclosure**   IP40, plastic and metal shell with solid mounting kits
- **Mounting**   DIN-rail, Wall

Protection

- **Reverse Polarity** Present
- **Overload current** Present
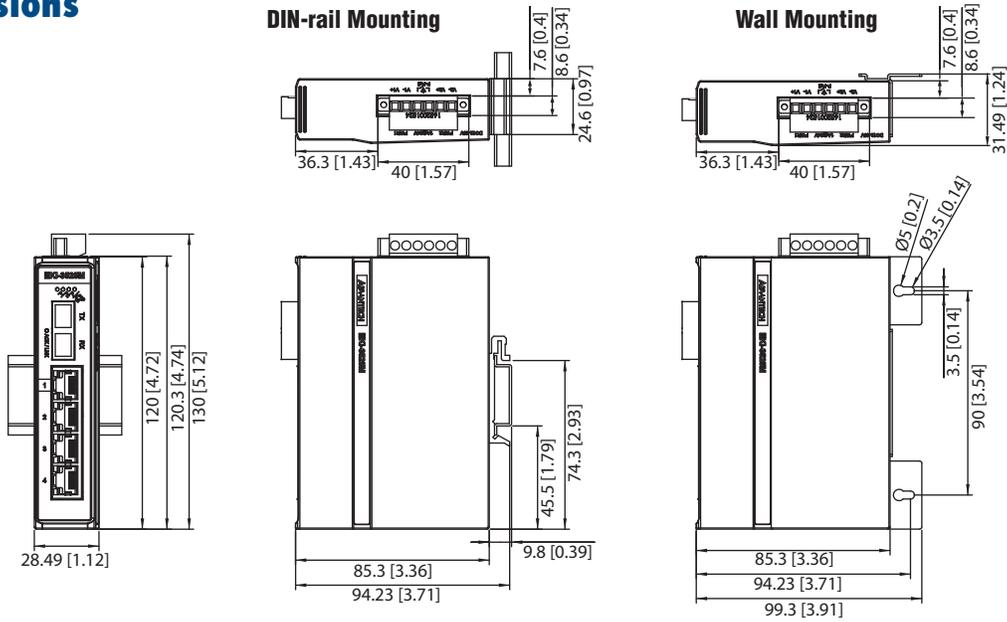
Environment

- **Operating Temperature** -10 ~ 60°C (14 ~ 140°F)
- **Storage Temperature**   -40 ~ 85°C (-40 ~ 185°F)
- **Operating Humidity**   5 ~ 95% (non-condensing)
- **Storage Humidity**   0 ~ 95% (non-condensing)
- **MTBF**   833,835 hours
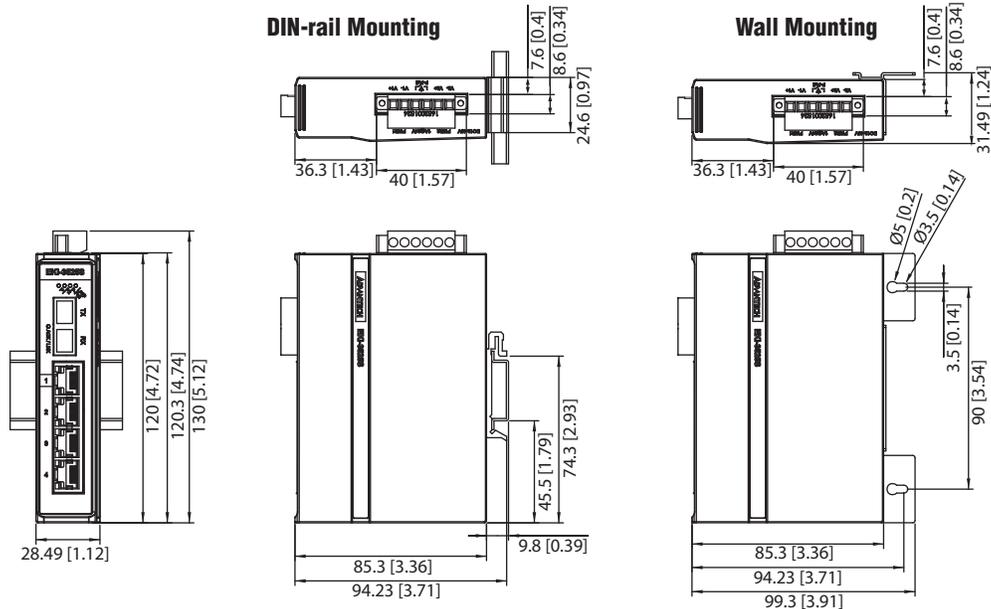
Certifications

- **Safety**   UL 60950-1, CAN/CSA-C22.2 No.60950
- **EMI**   FCC Part 15 Subpart B Class A, EN 55011/ 55022 Class A
- **EMS**   EN 61000-4-2 (Level 3)
  EN 61000-4-3 (Level 3)
  EN 61000-4-4 (Level 4)
  EN 61000-4-5 (Level 3)
  EN 61000-4-6 (Level 3)
  EN 61000-4-8 (Level 4)
- **Shock**   IEC 60068-2-27
- **Freefall** IEC 60068-2-32
- **Vibration** IEC 60068-2-6

Dimensions

DIN-rail Mounting   **Wall Mounting**   Unit: mm [inch]

EKI-3525M

EKI-3525S

DIN-rail Mounting   **Wall Mounting**

Ordering Information

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  Unmanaged Industrial Ethernet Switch
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  Unmanaged Industrial Ethernet Switch