

EKI-2716EI

16-port Fast Ethernet Unmanaged Switch

Preliminary



Features

- Provides 16 Fast Ethernet ports with Auto MDI/MDI-X
- Supports 16 x 10/100 Mbps Auto-Negotiation
- Supports redundant 12 ~ 48 VDC power input
- Supports one-touch DIP Switch Configuration: QoS/BSP/VLAN
- Supports EMC Level 4 protection for extreme outdoor environments
- Supports LAN surge protection up to 6 kV
- Supports wide operating temperatures from -40 to 75 °C
- Equipped with a pull-down DIN rail mounting kit for easy installation across various DIN rail dimensions

Introduction

The EKI-2716EI industrial Ethernet switch provides 16 x 10/100M copper ports, offering versatile connectivity for diverse applications. Users can conveniently enable or disable Quality of Service (QoS), broadcast storm protection, and VLAN settings using DIP switches. Equipped with 12~48 V_{DC} redundant power inputs and DIN-rail mounting, these switches are designed for reliable performance in industrial environments. With EMC Level 4 protection, it resists electromagnetic interference, ensuring stable operation even in harsh conditions. The operating temperature range of -40 to 75°C further enhances its durability.

Specifications

Communications

- **Standard** IEEE 802.3, 802.3u, 802.3x
- **LAN** 10/100Base-T(X)
- **Transmission Distance** Up to 100 m
- **Transmission Speed** Up to 100 Mbps

Interface

- **Connectors** 16 x RJ45
4-pin removable screw terminal
(power 1 & power 2)
- **LED Indicators** P1, P2,
10/100T(X): Link/Activity, Speed
- **DIP Switches** QoS/Broadcast Storm Protection/VLAN

Switch Properties

- **MAC Table Size** 8K
- **Packet Buffer Size** 2 MBits
- **Switching Capacity** 3.2Gbps
- **Jumbo Frame** 2K bytes

Power

- **Power Consumption** 4.5W
- **Power Input** 12~48 V_{DC} (8.4~52.8 V_{DC}), redundant dual inputs

Mechanism

- **Dimensions (W x H x D)** 72 x 140 x 105 mm
- **Enclosure** IP30, metal shell with solid mounting kits
- **Mounting** DIN-Rail, Wall

Environment

- **Operating Temperature** -40~ 75°C (-40~167°F)
- **Storage Temperature** -40 ~ 85°C (-40 ~ 185°F)
- **Operating Humidity** 5 ~ 95% (non-condensing)
- **Storage Humidity** 5 ~ 95% (non-condensing)
- **MTBF** 2,354,622 hours

Certification

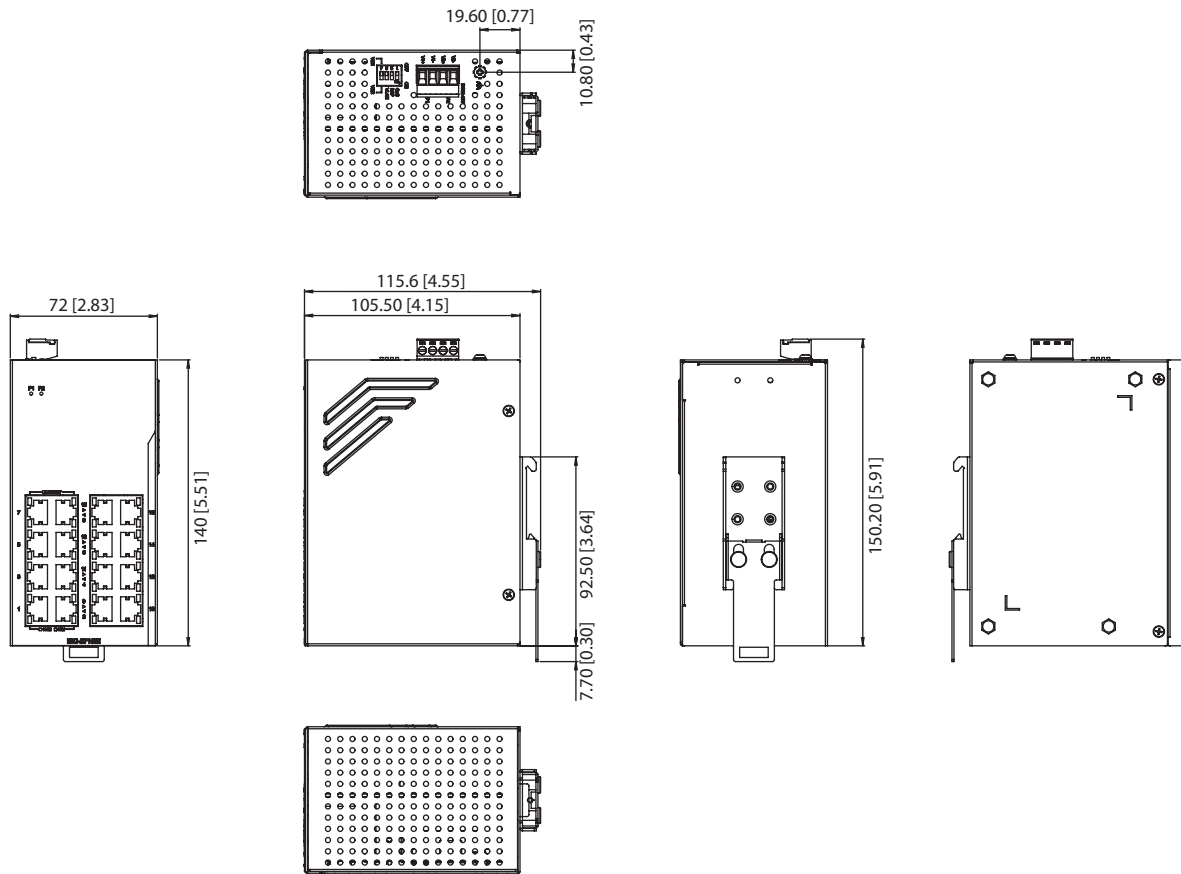
- **Safety** UL62368-1
- **EMC** CE, FCC, BSMI
- **EMI** FCC Part 15 Subpart B Class A
- **EMS** EN 61000-4-2 ESD (Level 4)
EN 61000-4-3 (Level 3)
EN 61000-4-4 EFT (Level 4)
EN 61000-4-5 Surge (Level 4, LAN Surge 6KV)
EN 61000-4-6 (Level 3)
EN 61000-4-8 (Level 3)
- **Shock** IEC 60068-2-27
- **Freefall** IEC 60068-2-32
- **Vibration** IEC 60068-2-6

Protection

- **Reverse Polarity** Present
- **Overload Current** Present

Mounting Dimensions

Unit: mm



Outline Dimensions (W x H x L): 72 x 140 x 105.5 mm (2.83" x 5.51" x 4.15")

Ordering Information

- EKI-2716EI-A 16-port Fast Ethernet Unmanaged Switch