# EKI-2716EI

## 16-port Fast Ethernet Unmanaged Switch

**Preliminary**

## Features

- Provides 16 Fast Ethernet ports with Auto MDI/MDI-X
- Supports 10/100 Mbps Auto-Negotiation
- Supports redundant 12 ~ 48 $V_{DC}$ power input
- Supports DIP Switch Configuration: QoS/BSP/VLAN
- Supports EMC Level 4 protection for extreme outdoor environments
- Supports wide operating temperatures from -40 to 75 °C
- Dual power input with 12 ~48 $V_{DC}$ (8.4~52.8 $V_{DC}$)

## 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
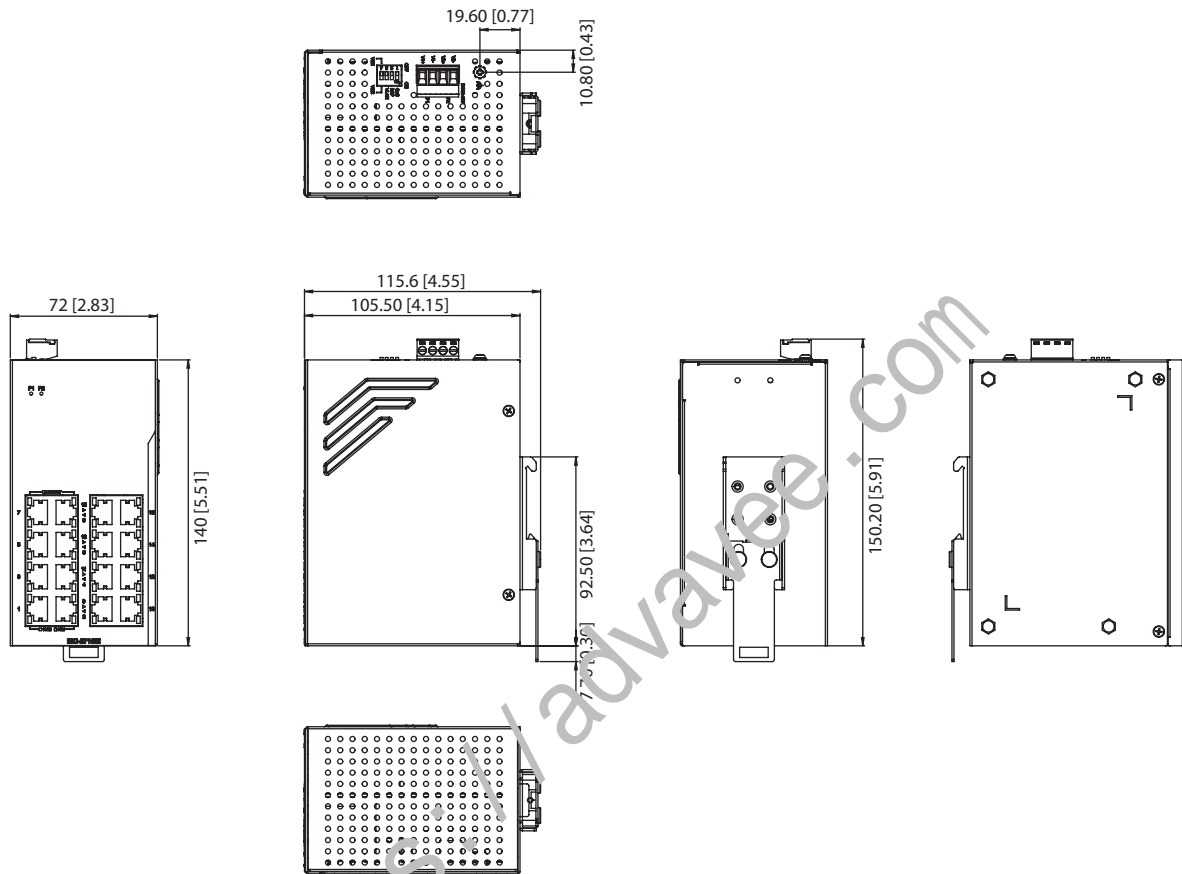
### Certification

- **Safety**    UL62368-1
- **EMC**    CE, FCC
- **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)
  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

   Last updated: 16-Sep-2024

# Mounting Dimensions

Unit: mm

19.60 [0.77]
10.80 [0.43]

72 [2.83]
140 [5.51]

115.6 [4.55]
105.50 [4.15]

92.50 [3.64]
7.76 [0.30]

150.20 [5.91]

**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**          16-port Fast Ethernet Unmanaged Switch