EKI-2716GI

16-port Giga Unmanaged Switch

Preliminary

Features

- Provides 16 Gigabit ports with Auto MDI/MDI-X
- Supports 16 x 10/100/1000 Mbps Auto-Negotiation
- Supports redundant 12 ~ 48 V_{DC} power input
- Supports one-touch DIP Switch Configuration: QoS/BSP/ port-based 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-2716GI industrial Ethernet switch provides 16 x 10/100/1000M copper ports, offering versatile connectivity for diverse applications. Users can conveniently enable or disable Quality of Service (QoS), broadcast storm protection, and port-based 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, 802.3ab,802.3x,802.1p
- **LAN** — 10/100/1000 Base-T(X)
- **Transmission Distance** — Up to 100 m
- **Transmission Speed** — Up to 1000 Mbps

Interface

- **Connectors** — 16 x RJ45
  4-pin removable screw terminal (power 1 & power 2)
- **LED Indicators** — P1, P2,
  10/100/1000T(X): Link/Activity, Speed
- **DIP Switches** — QoS/Broadcast Storm Protection/VLAN

Switch Properties

- **MAC Table Size** — 8K
- **Packet Buffer Size** — 4.1M bits
- **Switching Capacity** — 32Gbps
- **Jumbo Frame** — 10K bytes

Power

- **Power Consumption** — 9.6W
- **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)
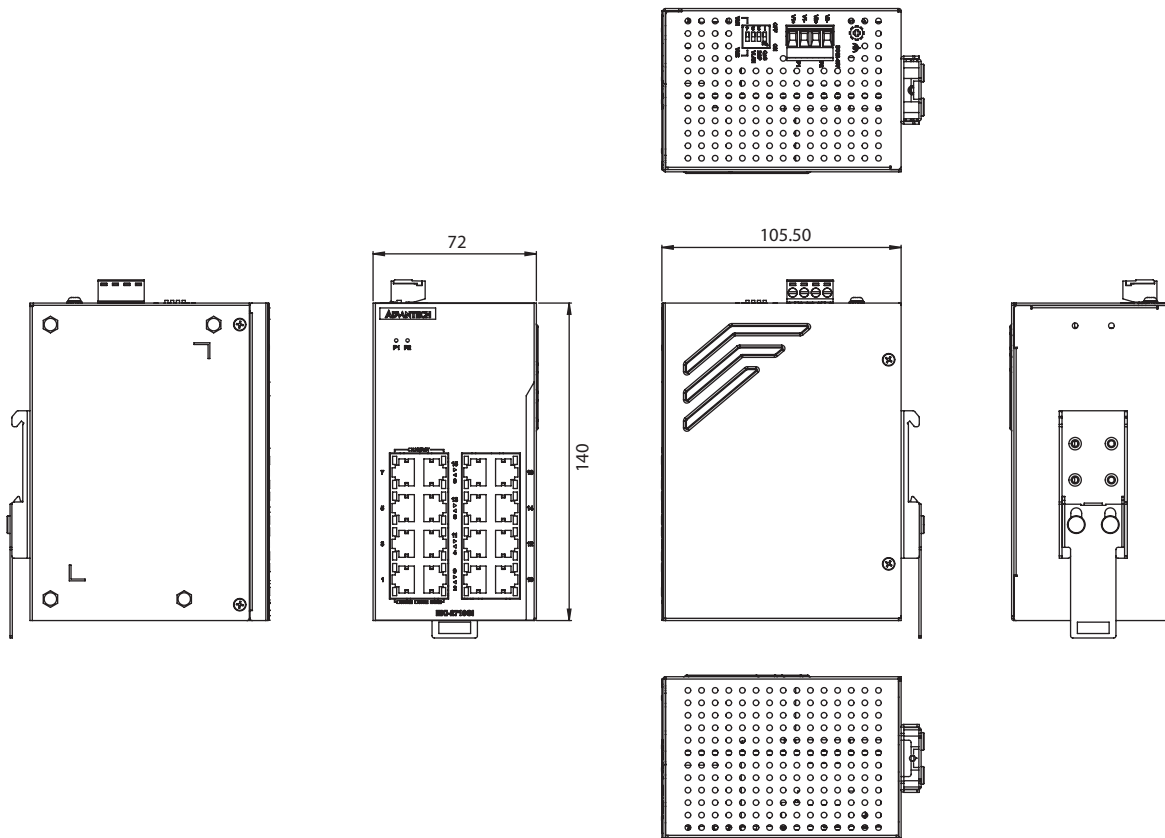
Certification

- **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

72

105.50

140

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-2716GI-A**   16-port Giga Ethernet Unmanaged Switch