

EKI-2716GI-R

16-port Gigabit Unmanaged Switch with Redundancy RSTP/STP/X-Ring

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/ Redundancy
- Redundancy RSTP/STP/X-Ring function on two designated ports.
- 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 and multi-angle installation

Introduction

The EKI-2716GI-R 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) and Redundancy X-Ring settings using DIP switches. With the help of X-Ring on 2 designated port, the EKI-2716GI-R ensures network redundancy and rapid recovery, maintaining uninterrupted communication even during link failures. 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.

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 / Redundancy

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

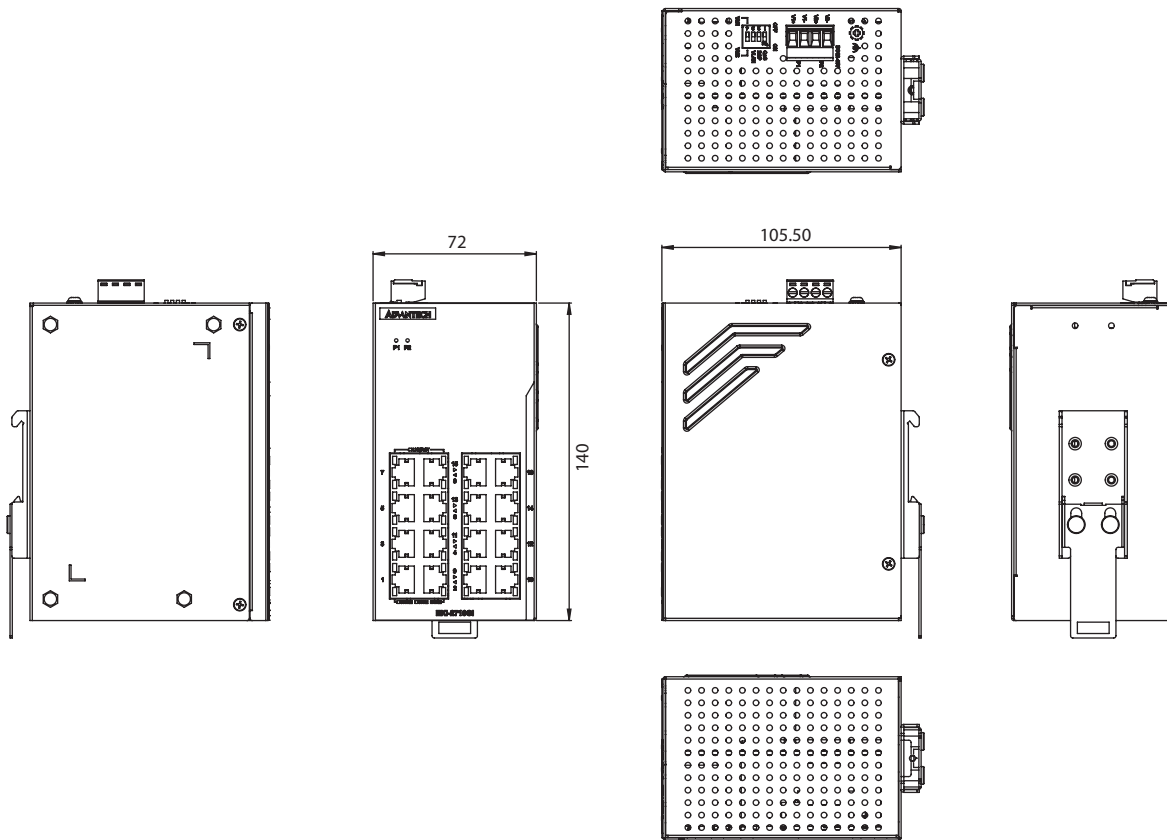
- **Safety** UL62368-1
- **EMC** CE, FCC, BSMI
- **EMI** FCC Part 15 Subpart B Class A
- **EMS** EN 61000-4-2 ESD (Level 4)
EN 61000-4-3 (Level 3)
EN 61000-4-4 EFT (Level 4)
EN 61000-4-5 Surge (Level 4, LAN Surge ±6KV)
EN 61000-4-6 (Level 3)
EN 61000-4-8 (Level 3)
- **Shock** IEC 60068-2-27
- **Freefall**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

Protection

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

Mounting Dimensions

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-2716GI-R-A 16-port Giga Ethernet Unmanaged Switch with Redundancy