EKI-2710E-2CI

8FE + 2GE Combo Fast Ethernet Unmanaged Switch

Preliminary

Features

- Provides 8FE+2GE combo Fast Ethernet ports with Auto MDI/MDI-X
- Supports 8 x 10/100 Mbps Auto-Negotiation + 2 x Combo 10/100/1000M 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
- Equipped with a pull-down DIN rail mounting kit for easy installation across various DIN rail dimensions

Introduction

The EKI-2710E-2CI industrial Ethernet switch provides 8 x 10/100M + 2GE Combo 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 pull-down 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, 802.3z, 802.3x
- **LAN**   10/100Base-T(X)
- **Transmission Distance** Ethernet: Up to 100m; SFP: Up to 110km
- **Transmission Speed**   8 x 10/100 Mbps Auto-Negotiation
                        2 x 10/100/1000Base-T(X) or 100/1000Base-FX SFP

Interface

- **Connectors**   8 x Fast Ethernet (RJ45) + 2 x Giga (RJ45/ SFP) combo ports
                        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**   4K
- **Packet Buffer Size**   2 MBits
- **Switching Capacity**   5.6Gbps
- **Jumbo Frame**   16K Bytes

Power

- **Power Consumption**   5.8W
- **Power Input**   12~48 V_{DC} (8.4~52.8 V_{DC}), redundant dual inputs

Mechanism

- **Dimensions (W x H x D)** 40 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**   TBD

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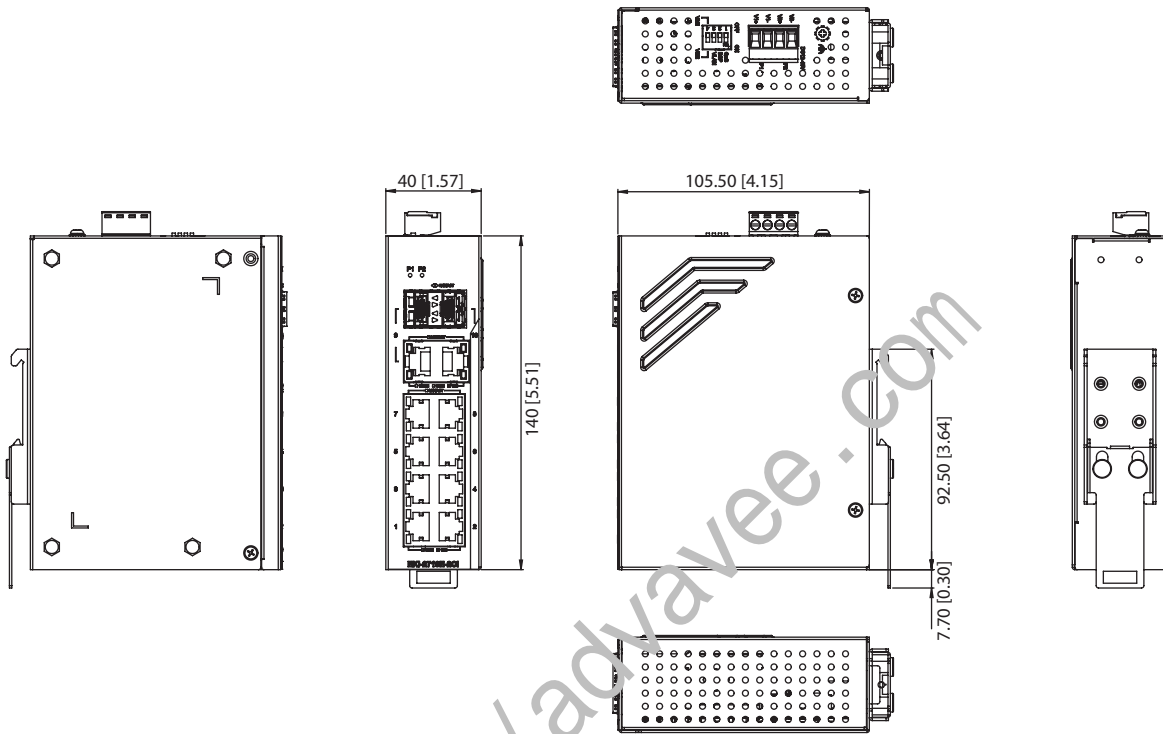
- **Safety**   UL62368-1
- **EMC**   CE, FCC
- **EMI**   FCC Part 15 Subpart B Class A
- **EMS**   EN 61000-4-2 ESD (Level 4) EN 61000-4-3 (Level 3)
                EN 61000-4-4 EFT (Level 4)
                EN 61000-4-5 Surge (Level 4)
                EN 61000-4-6 (Level 3)
                EN 61000-4-8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

Protection

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

ADVANTECH Industrial IoT Gateways

All product specifications are subject to change without notice.   Last updated: 4-Oct-2024

Dimensions

Unit: mm

40 [1.57]

140 [5.51]

105.50 [4.15]

92.50 [3.64]

7.70 [0.30]

Outline Dimensions (W x H x L): 40 x 140 x 105.5 mm (1.57"x 5.51" x 4.15")

Ordering Information

- **EKI-2710E-2CI-A**   8FE + 2GE Combo Fast Ethernet Unmanaged Switch