EKI-7659CPI

8+2G Port Gigabit Managed Redundant Industrial PoE Switch with Wide Temperature

Features

- 2 Gigabit Copper/SFP combo ports, plus 8 PoE injector ports
- SFP socket for Easy and Flexible Fiber Expansion
- Redundancy: Gigabit X-Ring Pro (ultra high-speed recovery time < 20 ms), RSTP/STP (802.1w/1D)
- Management: Web, Telnet, Serial Console, SNMP
- Control: VLAN/GVRP, QoS, IGMP Snooping/Query, LACP, Rate Limit
- Security: IP/MAC and port binding, DHCP Server, IP access list, 802.1X, SSL SNMPv3
- Diagnostic: Port Statistic, Port Mirroring, RMON, Trap, Email Alert, Syslog
- Dual 48 V_{DC} power input and 1 relay output
- Supports wide operating temperatures -40 ~ 75°C

Introduction

EKI-7659CPI supports 8 Power over Ethernet (PoE) ports and 2 Gigabit combo ports. The PoE device helps realize a centralized power supply solution and provides up to 15.4 watts of power per port. To create reliability in your network, the EKI-7659CPI comes equipped with a proprietary redundant network protocol -- X-Ring Pro that was developed by Advantech, which provides users with an easy way to establish a redundant Ethernet network with ultra high-speed recovery time less than 20 ms. Furthermore, EKI-7659CPI also supports many advanced network standards to optimize network performance, ease maintenance issues, and secure network safety.

Specifications

Communications

- **Standard** — IEEE 802.3, 802.3u, 802.3x, 802.3z, 802.3ad, 802.3ab, 802.3af, 802.1D, 802.1w, 802.1p, 802.1Q, 802.1X
- **LAN** — 10/100/1000Base-T (X), Optional 100Base-FX, 1000Base-SX/LX/LHX/XD/ZX/EZX
- **Transmission Distance** — Ethernet: Up to 100 m (4- wire Cat.5e, Cat.6 RJ45 cable suggested for Gigabit port) SFP: Up to 110 km (depends on SFP)
- **Transmission Speed** — Ethernet: 10/100 Mbps Auto-Negotiation Gigabit Copper: 10/100/1000 Mbps, Auto-Negotiation Gigabit Fiber: Up to 1000 Mbps

Interface

- **Connectors** — 8 x RJ45 (Ethernet) 2 x RJ45/SFP (mini-GBIC) combo ports 6-pin removable screw terminal (Power&Relay)
- **LED Indicators** — System: PWR, PWR1, PWR2, R.M., P-Fail 10/100T (X): Link/Activity, Duplex/Collision Gigabit Copper: Link/Activity, Speed (1000 Mbps) SFP: Link/Activity
- **Console** — RS-232 (RJ45)

Network Management

- **Configuration** — Web browser, Telnet, Serial console, TFTP, SNMPv1/v2c/v3, Port Speed/Duplex Configuration, IPv6
- **VLAN** — IEEE 802.1Q, GVRP, Port-based VLAN
- **Redundancy** — Advantech X-Ring Pro (Recovery time < 20 ms at 250 pcs full loading ring structure), Dual Homing, Dual Ring, Couple Ring, 802.1w/D RSTP/STP
- **Security** — IP Access security, port security, DHCP Server, Port and IP Binding, 802.1X Port Access Control, SSL
- **Traffic Control** — IGMP Snooping/Query for multicast group management, Port Trunking, Static/802.3ad, LACP Rate limit and storm control, IEEE 802.1p QoS CoS/TOS/DSCP priority queuing, IEEE 802.3x flow control
- **Diagnostics** — Port Mirroring, Real-time traffic statistic, MAC Address Table, SNTP, Syslog, E-Mail Alert, SNMP Trap, RMON

Mechanism

- **Enclosure** — IP30, metal shell with solid mounting kits
- **Dimensions (W x H x D)** — 79 x 152 x 105 mm (3.11" x 5.98" x 4.13")
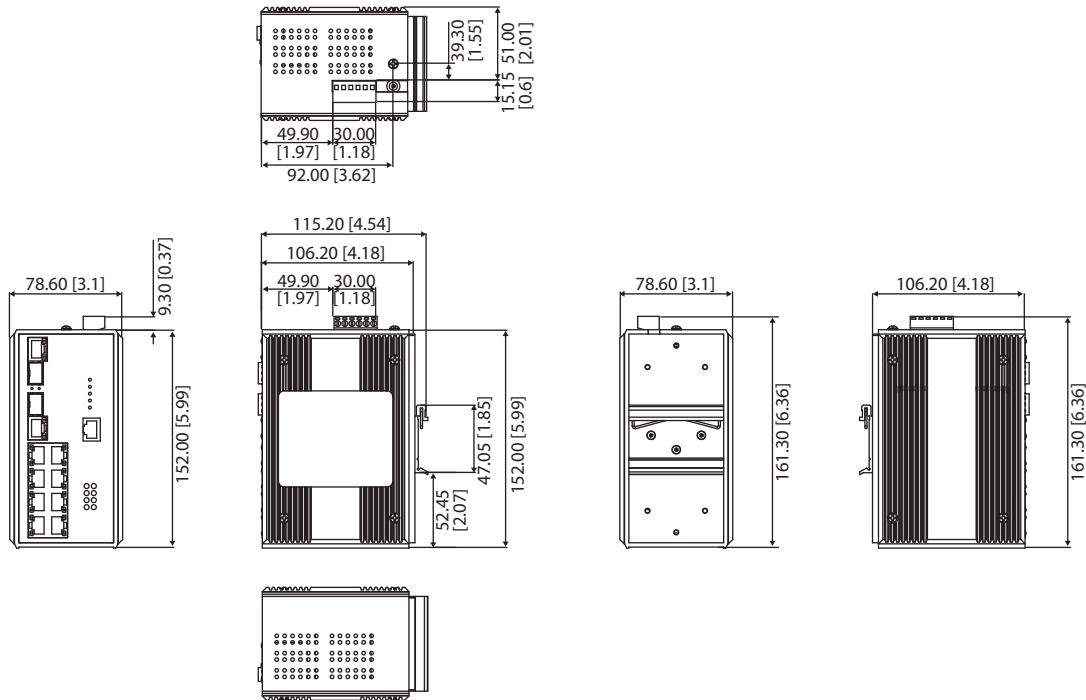- **Mounting** — DIN-rail, Wall

Power

- **Power Consumption** — 116 W (Full load PoE)
- **Power Input** — 48 V_{DC}, redundant dual power input
- **Power Output** — 15.4W at 48V (per PoE port)
- **Fault Output** — 1 Relay Output

Protection

- **Power Reverse** — Present
- **Overload Current** — Present

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Dimensions

Unit: [mm]

39.30 [1.55]
51.00 [2.01]
15.15 [0.6]
49.90 [1.97]
30.00 [1.18]
92.00 [3.62]

115.20 [4.54]
106.20 [4.18]
49.90 [1.97]
30.00 [1.18]

78.60 [3.1]
9.30 [0.37]
152.00 [5.99]

47.05 [1.85]
52.45 [2.07]
152.00 [5.99]

78.60 [3.1]
161.30 [6.36]

106.20 [4.18]
161.30 [6.36]

Panel Cut-out Dimensions: 115.2 x 152 x 78.6 (4.54" x 5.99" x 3.1")

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**   0 ~ 95% (non-condensing)
- **MTBF**   190,200 hours

Certification

- **Safety**   UL 60950-1, CAN/CSA-C22.2 No.60950
- **EMI**   FCC Part 15 Subpart B Class A, EN 55022 Class A
- **EMS**   EN 61000-4-2
  EN 61000-4-3
  EN 61000-4-4
  EN 61000-4-5
  EN 61000-4-6
  EN 61000-4-8
- **Shock**   IEC 60068-2-27
- **Freefall**   IEC 60068-2-32
- **Vibration**   IEC 60068-2-6

Ordering Information

- **EKI-7659CPI**   8FE + 2G Combo Port Managed PoE Ethernet Switch w/Wide Temp

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