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

The EKI-7659CPI supports eight Power over Ethernet (PoE) ports and two 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, 802.1p, 802.1p, 802.1Q, 802.1X

LAN
10/100/1000Base-T (X), Optional 100Base-FX,
1000Base-SX, VJ, HY, XD, ZY, ZF, Y

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

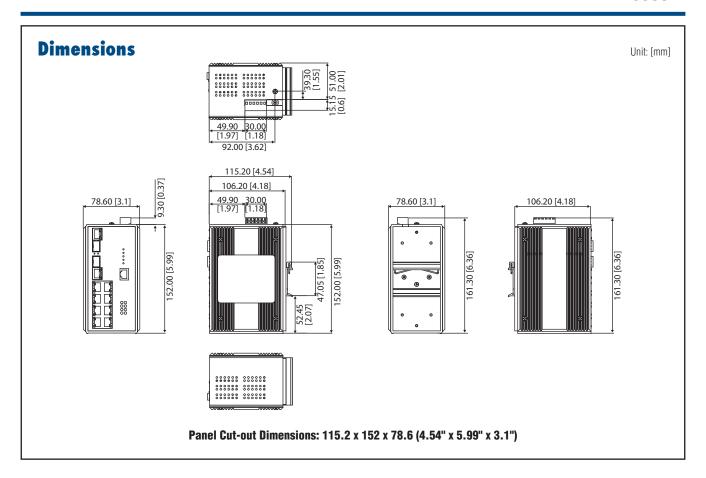
■ Power Consumption 116 W (Full load PoE)

Power Input
Power Output
48 V_{DC}, redundant dual power input
15.4W at 48V (per PoE port)

• Fault Output 1 Relay Output

Protection

Power Reverse Present
Overload Current Present



Environment

• Operating Temperature $-40 \sim 75$ °C ($-40 \sim 167$ °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

UL 60950-1, CAN/CSA-C22.2 No.60950 Safety - EMI FCC Part 15 Subpart B Class A, EN 55022 Class A EN 61000-4-2 - EMS

EN 61000-4-3 EN 61000-4-4 EN 61000-4-5 EN 61000-4-6 EN 61000-4-8 IEC 60068-2-27

Shock 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