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 (ultra high-speed recovery time < 10ms), 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,
- Diagnostic: Port Statistic, Port Mirroring, RMON, Trap, Email Alert, Syslog
- Dual 48 V_{DC} power input and 1 relay output
- Supports wide operating temperatures from -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 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 10 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, 802.1d, 802.1w, 802.1p, 802.1Q, 802.1x, 802.3ad, 802.3ab, 802.3af - 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 RJ-45 cable suggested for Gigabit port)

SFP: Up to 110 km (depends on SFP) Transmission Speed Ethernet: 10/100Mbps Auto-Negotiation

Gigabit Copper: 10/100/1000 Mbps, Auto-Negotiation

Gigabit Fiber: Up to 1000 Mbps

Interface

LED Indicators

Connectors 8 x RJ-45 (Ethernet)

2 x RJ-45/SFP (mini-GBIC) combo ports 6-pin removable screw terminal (Power&Relay) System: PWR, PWR1, PWR2, R.M., P-Fail 10/100T(X): Link/Activity, Duplex/Collision Gigabit Copper: Link/Activity, Speed (1000Mbps)

SFP: Link/Activity

Console RS-232 (RJ-45)

Network Management

Web browser, Telnet, Serial console, TFTP, SNMPv1/v2c/v3, Port Speed/Duplex Configuration IEEE 802.1Q, GVRP, Port-based VLAN Configuration

VLAN ADVANTECH X-Ring (Recovery time < 10ms at 30pcs Redundancy

full loading ring structure), Dual Homing, Couple Ring, 802.1w/D RSTP/STP

Security

IP Access security, port security, DHCP Server, Port and IP Binding, 802.1X Port Access Control 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

Port Mirroring, Real-time traffic statistic, MAC Address Table, SNTP, Syslog, E-Mail Alert, SNMP Trap, RMON Diagnostics

Mechanism

Enclosure IP30, metal shell with solid mounting kits

Dimensions (W x H x D) 79 x 152 x 105 mm DIN-rail, wall Mounting

Power

Power Consumption 116 W (Full Load)

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

Protection

ESD (Ethernet) 4,000 V_{DC} 3,000 V_{DC} Surge (EFT for power) Power Reverse Present

3.5 A @ 12 V_{DC} (Fuse) Overload

Environment

Operating Temperature $-40 \sim 75^{\circ} \text{ C} (-40 \sim 167^{\circ} \text{ F})$ -40 ~ 85° C (-40 ~ 185° F) **Storage Temperature Operating Humidity** 5 ~ 95% (non-condensing) 0 ~ 95% (non-condensing) Storage Humidity

MTBF 284,409 hours

Certifications

Safety UL 60950-1, CAN/CSA-C22.2 No.60950 EMC EU: EN55011, EN61000-6-4, EN55022 Class A, EN61000-3-2/3, EN55024

IEC61000-4-2/3/4/5/6/8, EN61000-6-2

Shock IEC60068-2-27 Freefall IEC60068-2-32 IEC60068-2-6 **Vibration**

Ordering Information

 EKI-7659CPI 8+2G Giga Managed PoE Switch w/Wide Temp