EKI-7659C/CI 8+2G Combo Port Gigabit Managed Redundant Industrial Ethernet Swit

Redundant Industrial Ethernet Switch



Features

- 2 Gigabit Copper/SFP combo ports, plus 8 Fast Ethernet 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 12 ~ 48 V_{DC} power input and 1 relay output
- Supports wide operating temperatures from -40 to 75°C (EKI-7669CI)

Introduction

Th EKI-7659C supports eight Fast Ethernet ports and two Gigabit combo ports. To create reliability in your network, the EKI-7659C 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-7659C 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		
- 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

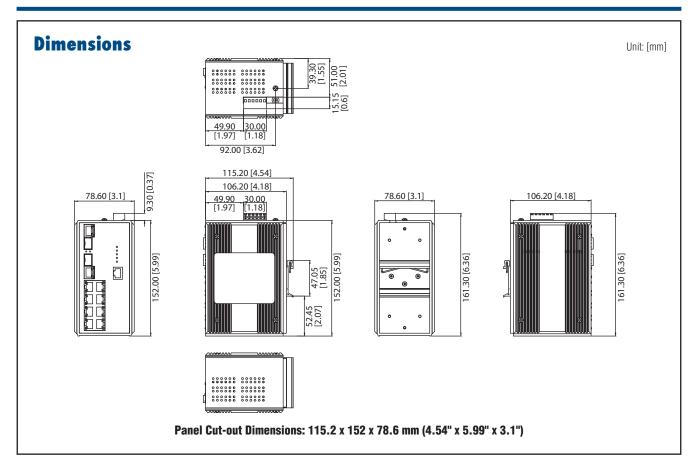
•	Configuration	Web browser, Telnet, Serial console, TFTP, SNMPv1/ v2c/v3, Port Speed/Duplex Configuration, IPv6
•	VLAN	IEEE 802.1Q, GVRP, Port-based VLAN
•	Redundancy	Advantech X-Ring Pro (Recovery time < 20 ms at 250 pcs full loading ring structure), Dual Homing, Dual Ring, Couple Ring, 802.1w/D RSTP/STP
•	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 Max. 10.7 W Power Input 12 ~ 48 V_{DC}, redundant dual inputs

1 Relay Output

- Fault Output
- Protection
- Power Reverse Present
- Overload Current Present

EKI-7659C/CI



Environment

- Operating Temperature -10 ~ 60°C (14 ~ 140°F) -40 ~ 75°C (-40 ~ 167°F) (EKI-7659CI)
- Storage Temperature
 - -40~85°C (-40~185°F)
- Operating Humidity 5 ~ 95% (non-condensing)
- Storage Humidity 0~95% (non-condensing)
- MTBF

Certification

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

284,409 hours

- 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
- IEC 60068-2-27 Shock
- Freefall IEC 60068-2-32 IEC 60068-2-6
- Vibration

Ordering Information

- EKI-7659C
- EKI-7659CI
- 8FE + 2G Combo Port Managed Ethernet Switch 8FE + 2G Combo Port Managed Ethernet Switch w/ Wide Temp