EKI-7657C/CI

7+3G Combo Port Gigabit **Managed Redundant Industrial** Ethernet Switch with 2 x DI/O



Features

- 3 Gigabit Copper/SFP combo ports, plus 7 Fast Ethernet ports
- 2 Digital Inputs and 2 Digital Outputs for Events and Alarms in the Network
- 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
- Operating temperature from -40 to 75°C (EKI-7657CI)

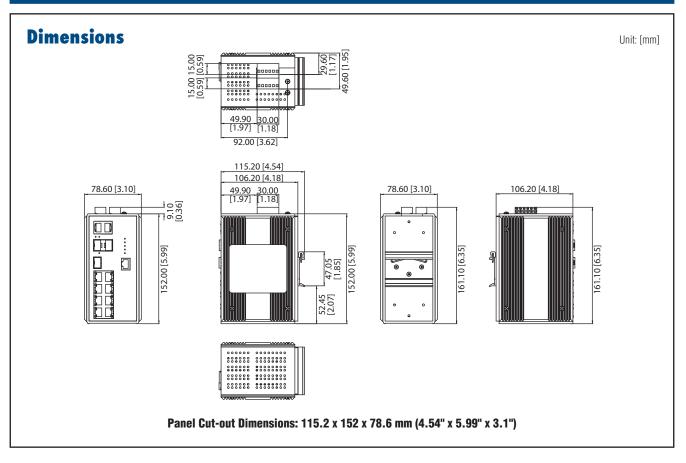
Introduction

EKI-7657C supports 7 Fast Ethernet ports and 3 Gigabit combo ports with 2 x Digital Input and Digital Output ports. To create reliability in your network, the EKI-7657C 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-7657C also supports many advanced network standards to optimize network performance, ease maintenance issues, and secure network safety.

Specifications

Communications		 Security 	IP Access security, port security, DHCP Server, Port and IP Binding, 802.1X Port Access Control, SSL
 Standard LAN Transmission Distance 	IEEE 802.3, 802.3u, 802.3x, 802.3z, 802.1D, 802.1w, 802.1p, 802.1Q, 802.1X, 802.3ad, 802.3ab 10/100/1000Base-T (X), Optional 100Base-FX, 1000Base-SX/LX/LHX/XD/ZX/EZX Ethernet: Up to 100 m (4- wire Cat.5e, Cat.6 RJ45	 Traffic Control Diagnostics 	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
 Transmission Speed 	cable suggested for Gigabit port) SFP: Up to 110 km (depends on SFP) Ethernet: 10/100 Mbps Auto-Negotiation	Mechanism	Table, SNTP, Syslog, Email Alert, SNMP Trap, RMON
	Gigabit Copper: 10/100/1000 Mbps, Auto-Negotiation Gigabit Fiber: Up to 1000 Mbps	 Enclosure Dimensions (W x H x D) 	IP30, metal shell with solid mounting kits 79 x 152 x 105 mm (3.11" x 5.98" x 4.13")
Interface		 Mounting 	DIN-rail, Wall
 Connectors LED Indicators 	7 x RJ45 (Ethernet) 3 x RJ45/SFP (mini-GBIC) combo ports 1 x 6-pin removable terminal (Power & Relay) 1 x 6-pin removable terminal (DI/DO) System: PWR, PWR1, PWR2, R.M., P-Fail	Power Power Consumption Power Input Fault Output	Max. 10.7 W 12 ~ 48 V _{DC} , redundant dual inputs 1 Relay Output
 Console 	10/100T (X): Link/Activity, Duplex/Collision Gigabit Copper: Link/Activity, Speed (1000 Mbps) SFP: Link/Activity RS-232 (RJ45)	Protection - Power Reverse - Overload Current	Present Present
Network Management		Environment	
 Configuration VLAN Redundancy 	Web browser, Telnet, Serial console, TFTP, SNMPv1/v2c/v3, Port Speed/Duplex Configuration, IPv6 IEEE 802.1Q, GVRP, Port-based VLAN Advantech X-Ring Pro (Recovery time < 20 ms at 250 pcs full loading ring structure), Dual Homing, Dual	 Operating Temperature Storage Temperature Operating Humidity Storage Humidity 	-40 ~ 75°C (-40 ~ 167°F) (EKI-7657CI) -40 ~ 85°C (-40 ~ 185°F) 5 ~ 95% (non-condensing) 0 ~ 95% (non-condensing)
	Ring, Couple Ring, 802.1w/D RSTP/STP	• MTBF	284,409 hours

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Certifications

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

FCC Part 15 Subp; 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

IEC 60068-2-32

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

Ordering Information

- EKI-7657C
- 7FE + 3G C
- EKI-7657CI
- 7FE + 3G Combo Port Managed Ethernet Switch w/ 2 x DI/DO
- 7FE + 3G Combo Port Managed Ethernet Switch w/ 2 x DI/DO and Wide Temp