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)

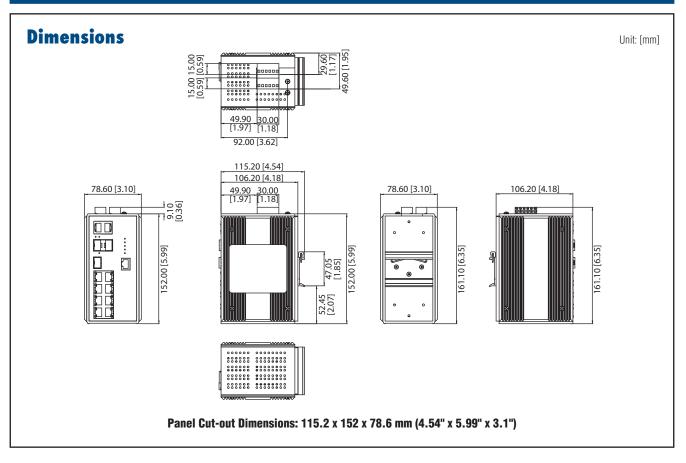
Introduction

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

Mouser Electronics

Authorized Distributor

Click to View Pricing, Inventory, Delivery & Lifecycle Information:

Advantech: EKI-7657C-AE