EKI-7654C

4+2G Combo Port Gigabit Managed **Redundant Industrial Ethernet Switch**



Features

- 2 Gigabit Copper/SFP combo ports, plus 4 Fast Ethernet ports
- Full/half duplex mode flow control
- MDI/MDI-X auto crossover
- 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, SNMP Trap, SMTP, Syslog, SSL
- Dual 12 ~ 48 V_{DC} power input and 1 relay output









Introduction

The EKI-7654C supports four Fast Ethernet ports and two Gigabit combo ports. To create reliability in your network, the EKI-7654C 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, the EKI-7654C 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 100Base-TX, 10/1000Base-T, 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) Ethernet: 10/100 Mbps Auto-Negotiation

Transmission Speed Gigabit Copper: 10/100/1000 Mbps, Auto-Negotiation Gigabit Fiber: Up to 1000 Mbps

Interface

Connectors 4 x RJ45 (Ethernet) 2 x RJ45/SFP (mini-GBIC) combo ports 6-pin removable screw terminal (Power & Relay)

System: PWR, PWR1, PWR2, R.M., P-Fail LED Indicators 10/100T (X): Link/Activity, Duplex/Collision

Gigabit Copper: Link/Activity, Speed (1000 Mbps) SFP: Link/Activity

Console RS-232 (RJ45)

Network Management

Web browser, Telnet, Serial console, TFTP, SNMPv1/ Configuration 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

IP Access security, port security, DHCP Server, Port Security

and IP Binding, 802.1X Port Access Control, SSL

IGMP Snooping/Query for multicast group Traffic Control

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

 $12 \sim 48 V_{DC}$, redundant dual inputs Power Input

 Fault Output 1 Relay Output

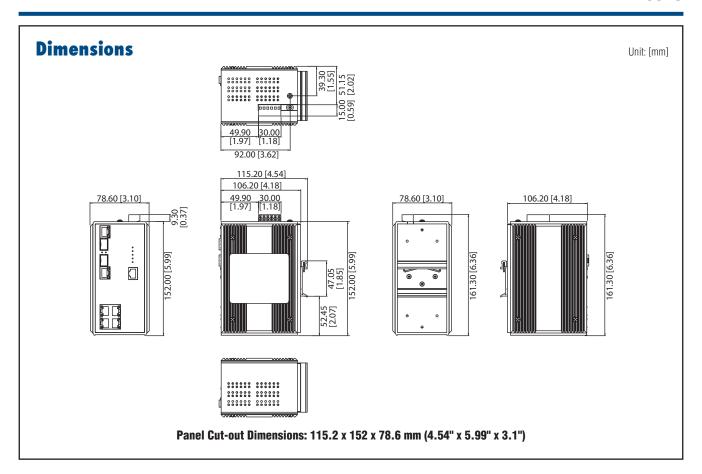
Protection

 Power Reverse Present **Overload Current** Present

Environment

• Operating Temperature $-10 \sim 60^{\circ}\text{C}$ (14 ~ 140°F) Storage Temperature -40 ~ 85°C (-40 ~ 185°F) **Operating Humidity** 5 ~ 95% (non-condensing) Storage Humidity 0 ~ 95% (non-condensing)

MTBF 284,409 hours



Certification

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

- 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

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

Ordering Information

EKI-7654C

4FE + 2G Combo Port Managed Ethernet Switch