EKI-7656C/CI 16+2G Combo Port Gigabit Managed Redundant Industrial Ethernet Switch



Features

- 2 Gigabit Copper/SFP combo ports, plus 16 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,
- Diagnostic: Port Statistic, Port Mirroring, RMON, Trap, Email Alert, Syslog
- Dual 12 ~ 48 V_{DC} power inputs and 1 relay output
- Supports wide operating temperatures from -40 to 75°C (EKI-7656CI)



Introduction

EKI-7656C supports 16 Fast Ethernet ports and 2 Gigabit combo ports. To create reliability in your network, the EKI-7656C 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-7656C 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)

Ethernet: 10/100 Mbps Auto-Negotiation Transmission Speed

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

SFP: Up to 1000 Mbps

Interface

16 x RJ45 (Ethernet) Connectors

> 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 Ethernet: Link/Activity, Duplex/Collision

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

SFP: Link/Activity

Console RS-232 (RJ45)

Network Management

Diagnostics Port Mirroring, Real-time traffic statistic, MAC Address

Table, SNTP, Syslog, E-Mail Alert, SNMP Trap, RMON

VLAN IEEE 802.1Q, GVRP, Port-based VLAN Configuration Web browser, Telnet, Serial consloe, TFTP,

SNMPv1/v2c/v3, Port Speed/Duplex Configuration,

Advantech X-Ring Pro (Recovery time < 20 ms at 250 Redundancy

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

MTBF

 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

Security

Traffic Control

Mechanism

 Power Consumption Max. 10.7 W

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

 Fault Output 1 Relay Output

Protection

Power Reverse Present **Overload Current** Present

Environment

■ Operating Temperature -10 ~ 60°C (14 ~ 140°F)

-40 ~ 75°C (-40 ~ 167°F) (EKI-7656CI)

IP Access security, port security, DHCP Server, Port

management, Port Trunking, Static/802.3ad, LACP Rate

limit and storm control, IEEE 802.1p QoS CoS/TOS/

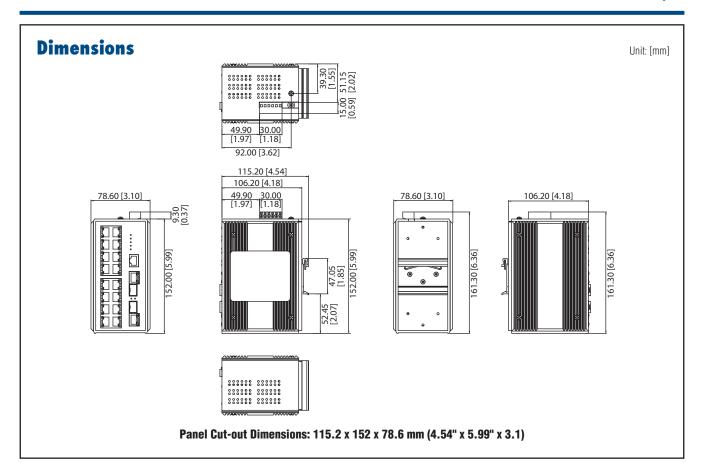
DSCP priority queuing, IEEE 802.3x flow control

and IP Binding, 802.1X Port Access Control, SSL

IGMP Snooping/Query for multicast group

Storage Temperature -40 ~ 85°C (-40 ~ 185°F) **Operating Humidity** 5 ~ 95% (non-condensing) Storage Humidity 0 ~ 95% (non-condensing)

295.000 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

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

Ordering Information

■ EKI-7656C

16FE + 2G Combo Port Managed Ethernet Switch EKI-7656CI 16FE + 2G Combo Port Managed Ethernet Switch w/ Wide Temp

Mouser Electronics

Authorized Distributor

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Advantech:

EKI-7656CI-AE EKI-7656C-AE