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, • SNMPv3
- 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

The 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		 Security 	IP Access security, port security, DHCP Server, Port
 Standard 	IEEE 802.3, 802.3u, 802.3x, 802.3z, 802.1D, 802.1w, 802.1p, 802.1Q, 802.1X, 802.3ad, 802.3ab	 Traffic Control 	and IP Binding, 802.1X Port Access Control, SSL IGMP Snooping/Query for multicast group
- LAN	10/100/1000Base-T (X), Optional 100Base-FX, 1000Base-SX/LX/LHX/XD/ZX/EZX		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
Transmission Distance	Ethernet: Up to 100 m (4- wire Cat.5e, Cat.6 RJ45 cable suggested for Gigabit port)	Mechanism	
 Transmission Speed 	Ethernet: 10/100 Mbps Auto-Negotiation Gigabit Copper: 10/100/1000 Mbps, Auto-Negotiation, SFP: Up to 1000 Mbps	 Enclosure Dimensions (W x H x D) Mounting 	IP30, metal shell with solid mounting kits) 79 x 152 x 105 mm (3.11" x 5.98" x 4.13") DIN-rail. Wall
Interface		-	
 Connectors 	16 x RJ45 (Ethernet) 2 x RJ45/SFP (mini-GBIC) combo ports 6-pin removable screw terminal (Power&Relay)	Power Power Consumption Power Input	Max. 10.7 W 12 ~ 48 V_{DC} , redundant dual inpuds
 LED Indicators 	System: PWR, PWR1, PWR2, R.M., P-Fail Ethernet: Link/Activity, Duplex/Collision Gigabit Copper: Link/Activity, Speed (1000 Mbps) SFP: Link/Activity	 Fault Output Protection 	1 Relay Output
- Console	RS-232 (RJ45)	 Power Reverse Overload Current	Present Present
Network Management		Environment	
 Diagnostics 	Port Mirroring, Real-time traffic statistic, MAC Address Table, SNTP, Syslog, E-Mail Alert, SNMP Trap, RMON	 Operating Temperature 	-10 ~ 60°C (14 ~ 140°F) -40 ~ 75°C (-40 ~ 167°F) (EKI-7656CI)
- VLAN	IEEE 802.1Q, GVRP, Port-based VLAN	 Storage Temperature 	-40 ~ 85°C (-40 ~ 185°F)
 Configuration 	Web browser, Telnet, Serial consloe, TFTP,	 Operating Humidity 	5 ~ 95% (non-condensing)
	SNMPv1/v2c/v3, Port Speed/Duplex Configuration, IPv6	 Storage Humidity 	0 ~ 95% (non-condensing)
 Redundancy 	Advantech X-Ring Pro (Recovery time < 20 ms at 250 pcs full loading ring structure), Dual Homing, Dual	• MTBF	295,000 hours

AD\ANTECH **Industrial Ethernet Solutions**

Ring, Couple Ring, 802.1w/D RSTP/STP

EKI-7656C/CI



Certification

- Safety
- = EMI
- EMS

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

IEC 60068-2-6

- Shock
- Freefall
- Vibration

Ordering Information

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