EKI-7659C/CI 8+2G Combo Port Gigabit Managed Redundant Industrial Ethernet Switch



Features

- 2 Gigabit Copper/SFP combo ports, plus 8 Fast Ethernet ports
- SFP socket for Easy and Flexible Fiber Expansion
- Redundancy: Gigabit X-Ring (ultra high-speed recovery time < 10ms), 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, SNMPv3
- Diagnostic: Port Statistic, Port Mirroring, RMON, Trap, Email Alert, Syslog
- Dual 12 ~ 48 V_{DC} power input and 1 relay output
- Supports wide operating temperatures from -40 ~ 75° C (EKI-7659CI)

Introduction

EKI-7659C support 8 Fast Ethernet ports and 2 Gigabit combo ports. To create reliability in your network, the EKI-7659C comes equipped with a proprietary redundant network protocol -- X-Ring 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 10 ms. Furthermore, EKI-7659C also supports many advanced network standards to optimize network performance, ease maintenance issues, and secure network safety.

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Specifications

Communications

1	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, • M 1000Base-SX/LX/LHX/XD/ZX/EZX
	Transmission Distance	Ethernet: Up to 100 m (4- wire Cat.5e, Cat.6 RJ-45 cable suggested for Gigabit port) PC SFP: Up to 110 km (depends on SFP) PC
•	Transmission Speed	Ethernet: 10/100Mbps Auto-Negotiation Gigabit Copper: 10/100/1000 Mbps, Auto-Negotiation Gigabit Fiber: Up to 1000 Mbps Prot
In	iterface	= Pc = 0
•	Connectors	8 x RJ-45 (Ethernet) 2 x RJ-45/SFP (mini-GBIC) combo ports 6-pin removable screw terminal (Power&Relay) • 0
•	LED Indicators	System: PWR, PWR1, PWR2, R.M., P-Fail 10/100T(X): Link/Activity, Duplex/Collision Gigabit Copper: Link/Activity, Speed (1000Mbps) SFP: Link/Activity
•	Console	RS-232 (RJ-45)
N	etwork Management	Cert
	Configuration	Web browser, Telnet, Serial console, TFTP, SNMPv1/ v2c/v3, Port Speed/Duplex Configuration
	VLAN Redundancy	IEEE 802.1Q, GVRP, Port-based VLAN ADVANTECH X-Ring (Recovery time < 10ms at 30pcs full loading ring structure), Dual Homing, Couple Ring, 802.1w/D RSTP/STP
	Security	IP Access security, port security, DHCP Server, Port and IP Binding, 802.1X Port Access Control
	Traffic Control	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
•	Diagnostics	Port Mirroring, Real-time traffic statistic, MAC Address Table, SNTP, Syslog, E-Mail Alert, SNMP Trap, RMON

Mechanism

Enclose	ure		IP30,	metal	shell	with	solid	mounting	kits

- imensions (W x H x D) 79 x 152 x 105 mm
- lountina DIN-rail. wall
- ver

ower Consumption Max. 10.7 W ower Input 12~ 48 V_{DC}, redundant dual inputs

ault Output 1 Relay Output

tection

ower Reverse Present verload 3.5 A @ 12 V_{DC} (Fuse)

ironment

- perating Temperature $-10 \sim 60^{\circ} \text{ C} (14 \sim 140^{\circ} \text{ F})$ -40 ~ 75° C (-40 ~ 167° F) lide temp. model -40 ~ 85° C (-40 ~ 185° F) torage Temperature
- perating Humidity
- torage Humidity
- ITBF

tifications

UL 60950-1, CAN/CSA-C22.2 No.60950 afety EU: EN55011, EN61000-6-4, EN55022 Class A, MC EN61000-3-2/3, EN55024, IEC61000-4-2/3/4/5/6/8, EN61000-6-2

IEC60068-2-27

IEC60068-2-32

IEC60068-2-6

284,409 hours

5 ~ 95% (non-condensing)

 $0 \sim 95\%$ (non-condensing)

- hock reefall
- ibration

rdering Information

- KI-7659C KI-7659CI
- 8+2G Giga Managed Ethernet Switch 8+2G Giga Managed Ethernet Switch w/Wide Temp