# 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 (ultra high-speed recovery time < 10 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, SNMPv3 Diagnostic: Port Statistic, Port Mirroring, RMON, SNMP Trap, SMTP, Syslog
- Dual 12 ~ 48 V<sub>DC</sub> power input and 1 relay output

## Introduction

EKI-7654C supports 4 Fast Ethernet ports and 2 Gigabit combo ports. To create reliability in your network, the EKI-7654C 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-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	<ul> <li>Enclosure</li> <li>Dimensions(</li> </ul>
•	LAN	100Base-TX, 10/1000Base-T, Optional 100Base-FX,	<ul> <li>Mounting</li> </ul>
		1000Base-SX/LX/LHX/XD/ZX/EZX	
•	Transmission Distance	Ethernet: Up to 100 m (4- wire Cat.5e, Cat.6 RJ-45	Power
		cable suggested for Gigabit port)	<ul> <li>Power Consul</li> </ul>
		SFP: Up to 110 km (depends on SFP)	<ul> <li>Power Input</li> </ul>
•	Transmission Speed	Ethernet: 10/100Mbps Auto-Negotiation	<ul> <li>Fault Output</li> </ul>
		Gigabit Copper: 10/100/1000Mbps, Auto-Negotiation	Protection
		Gigabit Fiber: Up to 1000Mbps	
h	nterface		<ul> <li>Power Rever</li> <li>Overload</li> </ul>
•	Connectors	4 x RJ-45 (Ethernet) 2 x RJ-45/SFP (mini-GBIC)	F
		combo ports 6-pin removable screw terminal	Environment
		(Power & Relay)	<ul> <li>Operating Te</li> </ul>
1	LED Indicators	System: PWR, PWR1, PWR2, R.M., P-Fail	<ul> <li>Storage Tem</li> </ul>
		10/100T(X): Link/Activity, Duplex/Collision	<ul> <li>Operating Hu</li> </ul>
		Gigabit Copper: Link/Activity, Speed (1000Mbps) SFP: Link/Activity	<ul> <li>Storage Hum</li> </ul>
	Console	RS-232 (RJ-45)	<ul> <li>MTBF</li> </ul>
	00113010	113-232 (110-43)	Certifications
N	etwork Management		<ul> <li>Safety</li> </ul>
•	Configuration	Web browser, Telnet, Serial console, TFTP, SNMPv1/	• EMC
		v2c/v3, Port Speed/Duplex Configuration	
1	VLAN	IEEE 802.1Q, GVRP, Port-based VLAN	
1	Redundancy	ADVANTECH X-Ring (Recovery time < 10 ms at 50pcs	
		full loading ring structure), Dual Homing, Couple Ring,	<ul> <li>Shock</li> </ul>
_	Coourity	802.1w/D RSTP/STP	<ul> <li>Freefall</li> </ul>
	Security	IP Access security, port security, DHCP Server, Port and IP Binding, 802.1X Port Access Control	<ul> <li>Vibration</li> </ul>
•	Traffic Control	IGMP Snooping/Query for multicast group	Orderin
		management Port Trunking, Static/802.3ad LACPRate	
		limit and storm controlIEEE 802.1p QoS CoS/TOS/	EKI-7654C
	D'	DSCP priority queuingIEEE 802.3x flow control	
•	Diagnostics	Port Mirroring, Real-time traffic statistic, MAC Address Table, SNTP, Syslog, E-Mail Alert, SNMP Trap, RMON	

#### Mechanism

#### Enclosure

- W x H x D) 79 x 152 x 105 mm
  - DIN-rail, wall
    - Imption Max. 10.7 W 12~ 48 V<sub>DC</sub>, redundant dual inputs 1 Relay Output

IP30, metal shell with solid mounting kits

- Present se 1.6A @ 12 V<sub>DC</sub> (Re-settable Fuse)
- mperature -10 ~ 60° C (14 ~ 140° F)
- perature
- umidity nidity
  - $0 \sim 95\%$  (non-condensing) 284,409 hours

UL 60950-1, CAN/CSA-C22.2 No.60950 U.S.A.: FCC Part 15 CISPR 22 EU: EN55011, EN61000-6-4 EN55022 Class A, EN61000-3-2/3 EN55024 IEC61000-4-2/3/4/5/6/8, EN61000-6-2/4
IEC60068-2-27 IEC60068-2-32 IEC60068-2-6

-40 ~ 85° C (-40 ~ 185° F)

5 ~ 95% (non-condensing)

## g Information

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