

7+3G Combo Port Gigabit **Managed Redundant Industrial** Ethernet Switch with 2 x DI/O



Features

- 3 Gigabit Copper/SFP combo ports, plus 7 Fast Ethernet ports
- 2 Digital Inputs and 2 Digital Outputs for Events and Alarms in the Network
- 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
- Operating temperature from -10 ~ 60° C

Introduction

EKI-7657C supports 7 Fast Ethernet ports and 3 Gigabit combo ports with 2 x Digital Input and Digital Output ports. To create reliability in your network, the EKI-7657C 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-7657C also supports many advanced network standards to optimize network performance, ease maintenance issues, and secure network safety.

Specifications

Communications

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 Standard 	IEEE 802.3, 802.3u, 802.3x, 802.3z, 802.1D, 802.1w, 802.1p, 802.1Q, 802.1X, 802.3ad, 802.3ab	 Enclosure Dimensions (W x H x D) 	
- LAN	10/100/1000Base-T(X), Optional 100Base-FX, 1000Base-SX/LX/LHX/XD/ZX/EZX	 Mounting 	DIN-rail, wall
 Transmission Distance 	Ethernet: Up to 100 m (4- wire Cat.5e, Cat.6 RJ-45	Power	
 Transmission Speed 	cable suggested for Gigabit port) SFP: Up to 110 km (depends on SFP) Ethernet: 10/100Mbps Auto-Negotiation	 Power Consumption Power Input 	Max. 10.7 W 12~ 48 V_{DC} , redundant dual inputs
	Gigabit Copper: 10/100/1000 Mbps, Auto-Negotiation Gigabit Fiber: Up to 1000 Mbps	 Fault Output Protection 	1 Relay Output
Interface		 ESD (Ethernet) 	4,000 V _{DC}
 Connectors 	7 x RJ-45 (Ethernet) 3 x RJ-45/SFP (mini-GBIC) combo ports 1 x 6-pin removable terminal (Power & Relay)	 Surge (EFT for power) Power Reverse 	3,000 V _{DC} Present
	1 x 6-pin removable terminal (DI/DO)	 Overload 	3.5 A @ 12 V _{DC} (Fuse)
LED Indicators	System: PWR, PWR1, PWR2, R.M., P-Fail	Environment	
	10/100T(X): Link/Activity, Duplex/Collision Gigabit Copper: Link/Activity, Speed (1000Mbps) SFP: Link/Activity	 Operating Temperature Storage Temperature 	-10 ~ 60° C (14 ~ 140° F) -40 ~ 85° C (-40 ~ 185° F)
 Console 	RS-232 (RJ-45)	 Operating Humidity Storage Humidity 	5 ~ 95% (non-condensing) 0 ~ 95% (non-condensing)
Network Management		 MTBF 	284,409 hours
 Configuration 	Web browser, Telnet, Serial console, TFTP, SNMPv1/ v2c/v3, Port Speed/Duplex Configuration	Certifications	
- VLAN	IEEE 802.1Q, GVRP, Port-based VLAN	 Safety 	UL 60950-1, CAN/CSA-C22.2 No.6
 Redundancy 	ADVANTECH X-Ring (Recovery time < 10ms at 30pcs full loading ring structure), Dual Homing, Couple Ring, 802.1w/D RSTP/STP	• EMC	EU: EN55011, EN61000-6-4, EN550 EN61000-3-2/3, EN55024, IEC61000-4-2/3/4/5/6/8, EN610
 Security 	IP Access security, port security, DHCP Server, Port	 Shock 	IEC60068-2-27
 Traffic Control 	and IP Binding, 802.1X Port Access Control IGMP Snooping/Query for multicast group management Port Trunking, Static/802.3ad LACP	FreefallVibration	IEC60068-2-32 IEC60068-2-6
	Rate limit and storm control IEEE 802.1p QoS CoS/TOS/DSCP priority queuing	Ordering Info	rmation
 Diagnostics 	IEEE 802.3x flow control Port Mirroring, Real-time traffic statistic, MAC Address Table, SNTP, Syslog, Email Alert, SNMP Trap, RMON	• EKI-7657C	7+3G Giga Managed Ethernet Switch

Mechanism

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- lo.60950 55022 Class A, 61000-6-2
 - vitch w/2 x DI/O