

16+2G Combo Port Gigabit Managed **Redundant Industrial Ethernet Switch**

• 2 Gigabit Copper/SFP combo ports, plus 16 Fast Ethernet ports

Redundancy: Gigabit X-Ring (ultra high-speed recovery time < 10 ms),

- Control: VLAN/GVRP, QOS, IGMP Snooping/Query, LACP, Rate Limit Security: IP/MAC and port binding, DHCP Server, IP access list, 802.1X,

Diagnostic: Port Statistic, Port Mirroring, RMON, Trap, Email Alert, Syslog

SFP socket for Easy and Flexible Fiber Expansion

Management: Web, Telnet, Serial Console, SNMP

Dual 12 ~ 48 V_{DC} power inputs and 1 relay output



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 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-7656C 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,	 Enclosure Dimonoiono (W x I
- LAN	802.1p, 802.1Q, 802.1X, 802.3ad, 802.3ab 10/100/1000Base-T(X), Optional 100Base-FX, 1000Base-SX/LX/LHX/XD/ZX/EZX	 Dimensions (W x I Mounting
 Transmission Distance 	Ethernet: Up to 100 m (4- wire Cat.5e, Cat.6 RJ-45	Power
 Transmission Speed 	cable suggested for Gigabit port) Ethernet: 10/100Mbps Auto-Negotiation Gigabit Copper: 10/100/1000 Mbps, Auto-Negotiation, SFP: Up to 1000 Mbps	 Power Consumption Power Input Fault Output
Interfece		Protection
Interface - Connectors	16 x RJ-45 (Ethernet) 2 x RJ-45/SFP (mini-GBIC) combo ports 6-pin removable screw terminal (Power&Relay)	 ESD (Ethernet) Surge (EFT for pov Power Reverse Overload
 LED Indicators Console 	System: PWR, PWR1, PWR2, R.M., P-Fail Ethernet: Link/Activity, Duplex/Collision Gigabit Copper: Link/Activity, Speed (1000Mbps) SFP: Link/Activity RS-232 (RJ-45)	Environment • Operating Temperative Storage Temperative Storage Temperative Storage Temperative Storage Temperative Storage Temperative Storage Stora
Network Management		 Operating Humidit Storage Humidity MTBF
 Diagnostics 	Port Mirroring, Real-time traffic statistic, MAC Address	
VLANConfiguration	Table, SNTP, Syslog, E-Mail Alert, SNMP Trap, RMON IEEE 802.1Q, GVRP, Port-based VLAN Web browser, Telnet, Serial consloe, TFTP, SNMPv1/ v2c/v3, Port Speed/Duplex Configuration	Certifications Safety EMC
 Redundancy 	ADVANTECH X-Ring (Recovery time < 10ms at 30pcs full loading ring structure), Dual Homing, Couple Ring,	Shock
 Security 	802.1w/D RSTP/STP IP Access security, port security, DHCP Server, Port and IP Binding, 802.1X Port Access Control	ShockFreefallVibration
 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	Ordering In - EKI-7656C

Mechanism

Features

SNMPv3

RSTP/STP (802.1w/1D)

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Enclosure IP30, metal shell with solid mounting k	ıg kits
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- H x D) 79 x 152 x 105 mm
 - DIN-rail, wall
- ion Max. 10.7 W
- 12~ 48 V_{DC} , redundant dual inpuds
 - 1 Relay Output

 $4,000 V_{\text{DC}}$

3,000 V_{DC}

- - wer)
 - Present
- 3.5 A @ 12 V_{DC} (Fuse)
- rature -10 ~ 60° C (14 ~ 140° F) ture -40 ~ 85° C (-40 ~ 185° F) 5 ~ 95% (non-condensing)
 - ity 0 ~ 95% (non-condensing)
- - UL 60950-1, CAN/CSA-C22.2 No.60950 EU: EN55011, EN61000-6-4, EN55022 Class A, EN61000-3-2/3, EN55024,

295,000 hours

IEC61000-4-2/3/4/5/6/8, EN61000-6-2 IEC60068-2-27 IFC60068-2-32 IEC60068-2-6

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16+2G Giga Managed Ethernet Switch