EKI-7758F

4G+4 SFP Gigabit Managed Redundant Industrial Ethernet Switch



Features

- All Gigabit Ethernet ports for 4 Copper and 4 SFP
- SFP sockets 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
- Diagnostic: Port statistic, Port Mirroring, RMON, Trap, Email Alert, Syslog
- Dual 12 ~ 48 V_{DC} power input and 1 relay output

Introduction

EKI-7758F supports 8 Gigabit ports with 4 x Ethernet and 4 x SFP. To create reliability in your network, the EKI-7758F 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 20 ms. Furthermore, EKI-7758F 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) 	IP30, metal shell with solid mountin 79 x 152 x 105 mm (3.11" x 5.98" x
- LAN	100Base-T (X), 10/1000Base-T, 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 RJ45	Power	
 Transmission Speed 	cable suggested for Gigabit port) SFP: Up to 110 km (depends on SFP) Gigabit Copper:10/100/1000 Mbps, Auto-Negotiation SFP: Up to 1000 Mbps	 Power Consumption Power Input Fault Output 	Max. 17 W 12 \sim 48 $V_{\text{DC}},$ redundant dual inputs 1 Relay Output
Interface		Protection	
 Connectors 	4 x RJ45 (Ethernet)	Power Reverse	Present
- Connectors	4 x SFP (mini-GBIC) ports	 Overload Current 	Present
	6-pin removable screw terminal (Power & Relay)	Environment	
 LED Indicators 	System: PWR, R.M., PWR1, PWR2, P-Fail Gigabit Copper: Link/Activity, Speed SFP: Link/Activity	 Operating Temperature Storage Temperature 	-40 ~ 85°C (-40 ~ 185°F)
 Console 	RS-232 (RJ45)	 Operating Humidity Storage Humidity 	5 ~ 95% (non-condensing) 0 ~ 95% (non-condensing)
Network Management		 MTBF 	289,777 hours
 Configuration 	Web browser, Telnet, Serial consloe, TFTP,	Certifications	
	SNMPv1/v2c/v3, Port Speed/Duplex Configuration, IPv6	 Safety 	UL 60950-1, CAN/CSA-C22.2 No.60 Class I, Division 2
• VLAN	IEEE 802.1Q, GVRP, Port-based VLAN	EMI	FCC Part 15 Subpart B Class A, EN
 Redundancy 	Advantech X-Ring Pro (Recovery time < 20 ms at 250 pcs full loading ring structure), Dual Homing,	EMS	EN 61000-4-2
	Dual Ring, Couple Ring, 802.1w/D RSTP/STP		EN 61000-4-3
 Security 	IP Access security, port security, DHCP Server, Port		EN 61000-4-4 EN 61000-4-5
 Traffic Control 	and IP Binding, 802.1X Port Access Control, SSL IGMP Snooping/Query for multicast group		EN 61000-4-6
	management, Port Trunking, Static/802.3ad, LACP Rate	- Check	EN 61000-4-8
	limit and storm control, IEEE 802.1p QoS CoS/TOS/	 Shock Freefall 	IEC 60068-2-27 IEC 60068-2-32
Discouting	DSCP priority queuing, IEEE 802.3x flow control	 Vibration 	IEC 60068-2-6
 Diagnostics 	Port Mirroring, Real-time traffic statistic, MAC Address Table, SNTP, Syslog, E-Mail Alert, SNMP Trap, RMON		
	Table, SMTT, Systey, L-Mail Alett, SMMT Trap, MMON	Ordering Info	rmation

Mechanism

- mounting kits
- x 5.98" x 4.13")

 Safety 	UL 60950-1, CAN/CSA-C22.2 No.60950 Class I. Division 2
= EMI = EMS	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
ShockFreefallVibration	IEC 60068-2-27 IEC 60068-2-32 IEC 60068-2-6

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