EKI-7758F

4G+4 SFP Gigabit Managed Redundant **Industrial Ethernet Switch**



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 10 ms. Furthermore, EKI-7758F also supports many advanced network standards to optimize network performance, ease maintenance issues, and secure network safety.

Specifications

Communications

StandardLAN	IEEE 802.3, 802.3u, 802.3x, 802.3z, 802.1D, 802.1w, 802.1p, 802.1Q, 802.1X, 802.3ad, 802.3ab 100Base-T(X), 10/1000Base-T, Optional 100Base-FX,	 Enclosure Dimensions (W x H x D) Mounting 	IP30, metal shell with solid mounting kits 79 x 152 x 105 mm DIN-rail, Wall
 Transmission Distance 	1000Base-SX/LX/LHX/XD/ZX/EZX Ethernet : Up to 100m (4- wire Cat.5e, Cat.6 RJ-45 cable suggested for Gigabit port) SFP: Up to 110 km (depends on SFP)	Power Power Consumption Power Input	Max. 17 W 12~ 48 V _{DC} , redundant dual inputs
 Transmission Speed 	Gigabit Copper:10/100/1000 Mbps, Auto-Negotiation SFP: Up to 1000 Mbps	 Fault Output Protection 	1 Relay Output
Interface		Power Reverse	Present
 Connectors 	4 x RJ-45 (Ethernet)	 Overload 	3.5 A @ 12 V _{DC} (Fuse)
 LED Indicators 	4 x SFP (mini-GBIC) ports 6-pin removable screw terminal (Power & Relay) System: PWR, R.M., PWR1, PWR2, P-Fail	Environment Operating Temperature 	10 60° C (14 140° E)
 Console 	Gigabit Copper: Link/Activity, Speed SFP: Link/Activity RS-232 (RJ-45)	 Storage Temperature Operating Humidity Storage Humidity 	-40 ~ 85° C (-40 ~ 185° F) 5 ~ 95% (non-condensing) 0 ~ 95% (non-condensing)
Network Management		 MTBF 	289,777 hours
 Configuration 	Web browser, Telnet, Serial consloe, TFTP, SNMPv1/	Certifications	
VLAN	v2c/v3, Port Speed/Duplex Configuration IEEE 802.1Q, GVRP, Port-based VLAN	 Safety 	UL 60950-1, CAN/CSA-C22.2 No.60950 Class I. Division 2
 Redundancy 	Advantech X-Ring (Recovery time < 10ms at 30pcs full loading ring structure), Dual Homing, Couple Ring,	- EMC	EU: EN55011, EN61000-6-4, EN55022 Class EN55024, IEC61000-4-2/3/4/5/6/8, EN6
- Coourity	802.1w/D RSTP/STP	 Shock 	IEC60068-2-27
 Security 	IP Access security, port security, DHCP Server, Port and IP Binding, 802.1X Port Access Control	 Freefall Vibration 	IEC60068-2-32 IEC60068-2-6
Traffic Control	IGMP Snooping/Query for multicast group	- vibiation	1200000-2-0
	management Port Trunking, Static/802.3ad LACP	Ordering Info	rmation
	Rate limit and storm control		
	IEEE 802.1p QoS CoS/TOS/DSCP priority queuing IEEE 802.3x flow control	 EKI-7758F 	4G+4 SFP Managed Gigabit Ethernet Switch
 Diagnostics 	Port Mirroring, Real-time traffic statistic, MAC Address Table, SNTP, Syslog, E-Mail Alert, SNMP Trap, RMON		

Mechanism

Features

RSTP/STP (802.1w/1D)

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• All Gigabit Ethernet ports for 4 Copper and 4 SFP

- SFP sockets for easy and flexible fiber expansion

Management: Web, Telnet, Serial Console, SNMP

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

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

- 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

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	Class I, Division 2
IC	EU: EN55011, EN61000-6-4, EN55022 Class A,
	EN55024, IEC61000-4-2/3/4/5/6/8, EN61000-6-2
ock	IEC60068-2-27
efall	IEC60068-2-32
oration	IEC60068-2-6