EKI-7720G-4F EKI-7720G-4FI

16GE+4SFP Port Gigabit Managed Redundant Industrial Switch



Features

- 16 x Gigabit Ethernet ports + 4 x SFP ports
- SFP socket for easy and flexible fiber expansion
- Redundancy: X-Ring Pro (ultra-high-speed recovery time, <20 ms), RSTP/STP (802.1w/1D)
- IXM function enables fast deployment
- Security: 802.1x (Port-Based, MD5/TLS/TLS/PEAP Encryption), RADIUS
- Management: SNMP v1/v2c/v3, WEB, Telnet, standard MIB, private MIB
- NEMA TS2 for traffic control
- EN50121-4 approval for railway trackside deployment
- Wide operating temperature range of -40 ~ 75°C (EKI-7720G-4FI)
- Dual 12 ~ 48 V_{DC} power input and 1 x relay output
- Support Security Pack to against internal and external cyber threats

Introduction

The EKI-7720G-4F and EKI-7720G-4FI provide users with abundant port options for connecting to various device types with 16 Gigabit Ethernet ports and 4 SFP (mini-GBIC) ports. These switches are embedded with Advantech's IXM function, which can benefit users with fast deployment and can dramatically save on engineering time and costs. The series also support NMS to help IT managers with networking maintenance and failure prevention. Finally, these switches are equipped with X-Ring Pro, which can achieve ultra-high-speed recovery times of <20 ms, thus ensuring network stability. The EKI-7720G-4FI in particular features a wide operating temperature range of wide -40 ~ 75°C.

Cortification

Specifications

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Interface		Certification	
I/O Port	16 x 10/100/1000BASE-T/TX RJ-45	EMI	CE, FCC Class A
	4 x SFP (mini-GBIC) port	 Safety 	UL61010-2-201
 Console port 	RS-232 (RJ45)		IEC60950*
 Power Connector 	6-pin screw Terminal Block (including relay)	= EMC	EN 61000-4-2
Dhusiaal			EN 61000-4-3 EN 61000-4-4
Physical			EN 61000-4-5
Enclosure	Metal Shell		EN 61000-4-6
 Protection Class 	IP 30		EN 61000-4-8
 Installation 	DIN-Rail		EN50121-4
 Dimensions (W x H x D) 	74 x 152 x 105 mm (2.91" x 5.98" x 4.13")	 Shock 	IEC 60068-2-27
LED Display		 Freefall 	IEC 60068-2-32
 System LED 	PWR1, PWR2, SYS, Alarm and R.M.	 Vibration 	IEC 60068-2-6
 Oystein LED Port LED 	Link / Speed / Activity	 Traffic control 	NEMA TS2
	Enik / Opeca / Activity	*= Compliant	
Environment		L2 Features	
 Operating Temperature 	-40 ~ 75°C (-40 ~ 167°F) (7720G-4FI)		01/
	-10 ~ 60°C (-40 ~ 140°F) (7720G-4F)	 L2 MAC Address Jumbo Frame 	8K
 Storage Temperature 	-40 ~ 85°C		9216 Bytes
 Ambient Relative Humidity 	10 ~ 95% (non-condensing)	 VLAN Group VLAN Arrange 	256 (VLAN ID 1 ~ 4094) Port based VLAN, Q-in-Q (VLAN Stacking), GVRP
 Humidity 	10 ~ 95% (non-condensing)	 VLAN Arrange Port Mirroring 	Per port, Multi-source port,
Power		 IP Multicast 	IGMP Snooping v1/v2/v3. MLD
	TDO	- IF MULLIGASL	Snooping, IGMP Immediate leave
 Power Consumption Dower Input 	TBC	Storm Control	Broadcast, Multicast, Unknown unicast
 Power Input Foult Output 	$12 \sim 48 V_{DC}$, redundant dual power input	 Redundancy 	IEEE 802.1D-STP. IEEE 802.1s-MSTP. IEEE
 Fault Output 	1 Relay Output		802.1w-RSTP, X-Ring Pro, with ultra high-speed

AD\ANTECH Industrial Ethernet Solutions

All product specifications are subject to change without notice.

recovery time less than 20ms

EKI-7720G-4F/4FI



QoS

 Priority Queue WRR (Weighted Round Robin), SP (Strict Scheduling Scheduling Priority) Hybrid Priority IEEE 802.1p Based CoS, IP TOS, DSCP based CoS

IEEE 802.3ad Dynamic Port Trunking, Static Port

SNMP v1/v2c/v3, WEB, Telnet, RMON, Standard MIB,

- Class of Service Ingress Rate limit, Egress Rate limit
- Rate Limiting
- Link Aggregation

Security

Port Security	Static, Dynamic IP Source Guard, ARP Spoofing	
	Prevention, Access Control List, DHCP Snooping,	
 Authentication 	802.1x (Port-Based, MD5/TLS/TTLS/PEAP	

802.1x (Port-Based, MD5/TLS/TTLS/PEAP Encryption), TACACS+

Management

 DHCP Client, Server, Option66/67/82

Private MIB

SNTP client

Trunking

Access

Security access

- SSH2.0, SSL TFTP, HTTP, Dual Image Software upgrade
- NTP

Ordering Information

- EKI-7720G-4FI-AE 16GE + 4SFP Port Managed Ethernet Switch w/Wide
 - Temp
- EKI-7720G-4F-AE
- 16GE + 4SFP Port Managed Ethernet Switch