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

16GE+4G SFP Port Gigabit Managed Redundant Industrial Switch

Features

- 16 x Gigabit Ethernet ports + 4 x SFP ports
- Redundancy: X-Ring Pro (ultra-high-speed recovery time, <20 ms), RSTP/STP (802.1w/1D)
- IXM function for fast deployment
- Security Pack with 802.1X, ACL, RADIUS, TACACS+, MAB Authentication, SNMPv3, HTTPS, SSH, and SFTP
- Management: SNMP v1/v2c/v3, WEB, Telnet, standard MIB, private MIB
- Supports NMS for easy and visualized to monitor and manage network remotely
- Dual 12 ~ 48 V_{DC} power input and 1 x relay output

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.

Power

Specifications

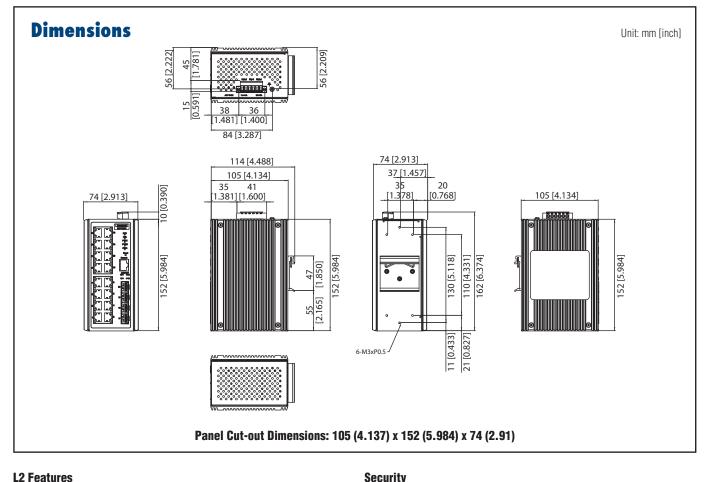
Interfaces / Communications

 I/O Port Stondarda 	16 x 10/100/1000BASE-T/TX RJ-45 4 x SFP (mini-GBIC) port Auto-Negotiation, Full/Half Duplex Mode Auto MDI/MDI-X Connection	 Power Consumption Power Input Fault Output 	14.5Watts@48V $_{\rm DC}$, 14Watts@12V $_{\rm DC}$ 12 ~ 48 V $_{\rm DC}$, redundant dual power input 1 Relay Output
 Standards 	IEEE 802.3 for 10BaseT IEEE 802.3u for 100BaseT(X)/FX IEEE 802.3ab 1000BaseT(X) IEEE 802.3z for 1000BaseSX/LX/LHX/ZX IEEE 802.3x for Flow Control	 Safety EMI EMS 	UL 61010-2-201, EN LVD 62368 CE, CISPR 32, FCC Part 15B Class A EN 61000-4-2 EN 61000-4-3
Console portPower Connector	RS-232 (RJ45) 6-pin screw Terminal Block (including relay)		EN 61000-4-4 EN 61000-4-5 EN 61000-4-6
Physical Enclosure Protection Class 	Metal Shell IP 30	• EMC	EN 61000-4-8 EN 61000-6-2 EN 61000-6-4
 Installation Dimensions (W x H x D) 	DIN-Rail, Wall-mount 74 x 152 x 105 mm (2.91" x 5.98" x 4.13")	ShockFreefallViburtien	IEC 60068-2-27 IEC 60068-2-32
LED Indicators System LED Port LED 	PWR1, PWR2, SYS, Alarm and R.M. Link / Speed / Activity	 Vibration Traffic control Railway Trackside 	IEC 60068-2-6 NEMA TS-2 EN 50121-4
 Forces Environment Operating Temperature 	-40 ~ 75°C (-40 ~ 167°F) (EKI-7720G-4FI)	Switch Properties Switching Capacity Transmission Rate 	40Gbps 29.7Mpps
 Storage Temperature Ambient Relative Humidity Overload Current Protection Reverse Polarity Protection MTBF 	-10 ~ 60°C (-40 ~ 140°F) (EKI-7720G-4F) -40 ~ 85°C (-40 ~ 185°F) 5 ~ 95% (non-condensing) Present Present 1,469,341 hours	 MAC Table Size Jumbo Frame Packet Buffer Size Max. IGMP Group Max. VLAN Group 	8K 1,0240 Bytes 4.1Mb 256 256 (VLAN ID 1 ~ 4094)

ADVANTECH Industrial Ethernet Solutions
All product specifications are subject to change without notice.

Last updated: 22-Jun-2021

EKI-7720G-4F/4FI



L2 Features

LZ FEALUIES		Security		
 VLAN Arrange Port Mirroring 	802.1Q Tag-based VLAN, 802.1ad QinQ VLAN Stacking 1 to 1. N to 1	 Port Security 	Static/Dynamic MAC, Max. Learning Limit, MAC Violation Notice	
- Tort Minoring	Max. Mirror Session: 4	802.1X	Port-based/MAC-based Authentication	
RSPAN	Remote Switched Port Analysis		(MD5/PEAP/TLS/TTLS Encryption)	
 GARP 	GVRP, GMRP	 MAB 	MAC Authentication Bypass	
IP Multicast	IGMP Snooping v1/v2/v3, MLD	 Authentication 	RADIUS, TACAS+	
	Snooping, IGMP Immediate leave	IP Security	IP Source Guard, DHCP Snooping, ARP Spoofing	
 Storm Control 	Broadcast, Multicast, Unknown unicast		Prevention	
LLDP	802.1ab LLDP, LLDP-MED	 ACL 	Access Control List (IP-ACL, MAC-ACL)	
Industrial Protocol	Modbus/TCP		Max. ACL Entries: 128	
 Redundancy 	IEEE 802.1D-STP, IEEE 802.1s-MSTP, IEEE	Management		
	802.1w-RSTP, X-Ring Pro, with ultra high-speed	• DHCP	Client, Server, Option66/67/82, DHCP Relay	
	recovery time less than 20ms, ERPS(G.8032)	 Access 	SNMP v1/v2c/v3, WEB, Telnet, RMON, Standard	
QoS			MIB-II, Private MIB, Ethernet-Like MIB, RMON MIB	
 Priority Queue 	WRR (Weighted Round Robin), SP (Strict Scheduling		(Group 1, 2, 3, 9)	
Scheduling	Priority) Hybrid Priority, Max. Priority Queues: 8	 Security access 	SSH2.0, SSL	
 Class of Service 	IEEE 802.1p Based CoS, IP TOS, DSCP based CoS	 Software upgrade 	TFTP, SFTP, HTTP, Dual Image	
 Rate Limiting 	Ingress Rate limit, Egress Rate limit	NTP	SNTP client	
 Link Aggregation 	IEEE 802.3ad Dynamic Port Trunking, Static Port			
	Trunking	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	

Note: For SFP copper type, only 1000Mbps supported