EKI-7712G-4FP EKI-7712G-4FPI

8G+4SFP Port Gigabit Managed Redundant Industrial PoE Switch



Features

- 8 x IEEE 802.3 af/at PoE Gigabit 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/TTLS/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
- -40 ~ 75°C wide-range operating temperature (EKI-7712G-4FPI)
- Dual 48 V_{DC} power input and 1 x relay output

Introduction

The EKI-7712G-4FP/4FPI support 8 Gigabit IEEE 802.3 af/at PoE ports and 4 SFP (mini-GBIC) ports. They can provide up to 30 W per port for high-power-consumption powered devices. They are embedded with Advantech's IXM function, which can benefit users with fast deployment and can save considerably engineering time and costs. The EKI-7712G series also support NMS to help IT managers with networking maintenance and failure prevention. Finally, the series are equipped with X-Ring Pro, which can achieve ultra-high-speed recovery times of <20 ms to ensure network stability. The EKI-7712G-4FPI in particular also features a wide operating temperature of -40 ~ 75°C and NEMA TS2 rating, making it ideal for use in traffic applications. Finally, the EKI-7712G-4FPI have successfully passed the EN50121-4 European railway standard requirements for emissions and railway platform and trackside deployment.

Specifications

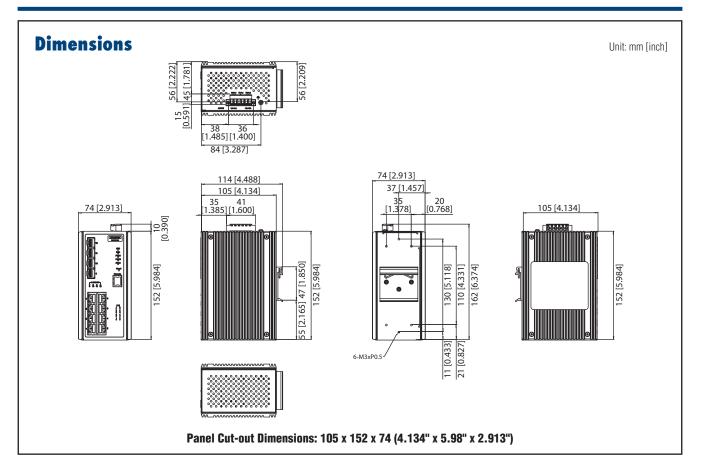
Interface

Interface		oortinoution	
 I/O Port 	8 x 10/100/1000BASE-T/TX RJ-45 4 x SFP (mini-GBIC) port	EMISafety	CE, FCC Class A UL61010-2-201
 Console port 	RS-232 (RJ45)		IEC60950*
 Power Connector 	6-pin screw Terminal Block (including relay)	• EMC	EN 61000-4-2 EN 61000-4-3
Physical			EN 61000-4-4
 Enclosure 	Metal Shell		EN 61000-4-5
Protection Class	IP 30		EN 61000-4-6 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
	· · · · ·	 Freefall 	IEC 60068-2-32
LED Display		 Vibration 	IEC 60068-2-6
 System LED 	PWR1, PWR2, SYS, Alarm and R.M.	 Traffic control 	NEMA TS2
 Port LED 	Link / Speed / Activity	*= Compliant	
Environment		 Patent 	http://www.advantech.com/legal/patent
 Operating Temperature 	-40 ~ 75°C (-40 ~ 167°F) (7712G-4FPI) -10 ~ 60°C (-40 ~ 140°F) (7712G-4FP)	L2 Features	
 Storage Temperature 	-40 ~ 85°C	L2 MAC Address	8K
 Ambient Relative Humidity 	10 ~ 95% (non-condensing)	 Jumbo Frame 	9216 Bytes
- Humidity	10 ~ 95% (non-condensing)	 VLAN Group 	256 (VLAN ID 1 ~ 4094)
		 VLAN Arrange 	802.1Q Tag-based VLAN, Q-in-Q (VLAN
Power		 Port Mirroring 	Stacking), GVRP Per port, Multi-source port, IGMP Snooping v1/v2/v3, MLD
 Power Consumption 	12.1W @ 48V _{DC} (System)	IP Multicast	Snooping, IGMP Immediate leave
 Power Input 	$48 V_{DC}$ (46 to 57 V _{DC}),	Storm Control	Broadcast, Multicast, Unknown unicast
	53 -57 V _{DC} is recommended for 802.3at, redundant dual power input	 Redundancy 	IEEE 802.1D-STP, IEEE 802.1s-MSTP, IEEE
Power Budget	240W	- neutilitality	802.1w-RSTP, X-Ring Pro, with ultra high-speed
 Fower Budget Fault Output 			recovery time less than 20ms
	1 Relay Output		

Certification

AD\ANTECH	Industrial Ethernet Solutions
All product specifications	are subject to change without notice.

EKI-7712G-4FP/4FPI



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

Private MIB

SNTP client

Trunking

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

- DHCP Client, Server, Option66/67/82
- Access

Security access

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

Ordering Information

- EKI-7712G-4FPI-AE
- 8GE + 4SFP Port Managed PoE Ethernet Switch w/Wide Temp
- EKI-7712G-4FP-AE
- 8GE + 4SFP Port Managed PoE Ethernet Switch