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

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



Features

- 8 x Gigabit Ethernet ports + 4 x SFP ports
- Support 8 x IEEE 802.3at/af PoE ports for PD demands
- 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 48 $V_{\mbox{\tiny DC}}$ 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. Provides 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-4FP/4FPI have successfully passed the EN50121-4 European railway standard requirements for emissions and railway platform and trackside deployment.

Power

IPv6 5tor CEFCC Rots

Specifications

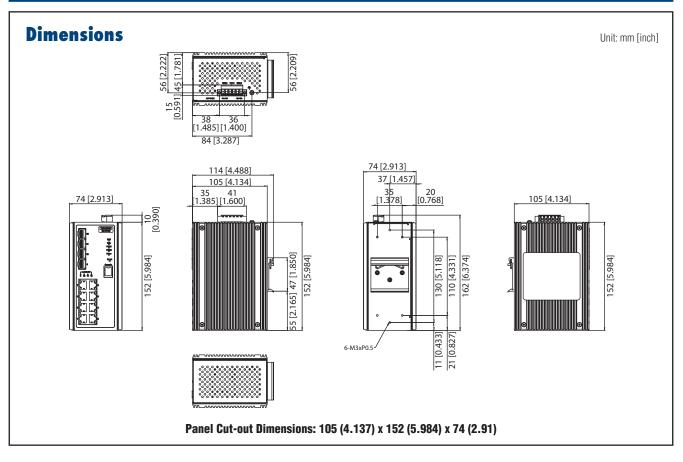
Interfaces / Communications

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 I/O Port 	8 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 	12.1W @ 48V _{DC} (System) 48 V _{DC} (46 to 57 V _{DC}) 53 -57 V _{DC} is recommended for 802.3at redundant dual power input
 Standards 	IEEE 802.3 for 10BaseT IEEE 802.3u for 100BaseT(X)/FX IEEE 802.3ab 1000BaseT(X)	Power BudgetFault Output	240W 1 Relay Output
 PoE Console Port Power Connector 	IEEE 802.32 for 1000BaseSX/LX/LHX/ZX IEEE 802.3x for Flow Control Port 1 ~ Port 8: IEEE 802.3at/af RS-232 (RJ45) 6-pin screw Terminal Block (including relay)	Certification Safety EMI EMS 	UL 61010-2-201 CE, CISPR 32, FCC Part 15B Class A IEC 61000-4-2 IEC 61000-4-3
Physical Enclosure Protection Class Installation Dimensions (W x H x D) LED Indicators System LED Port LED Environment	Metal Shell IP 30 DIN-Rail, Wall-mount 74 x 152 x 105 mm (2.91" x 5.98" x 4.13") PWR1, PWR2, SYS, Alarm and R.M. Link / Speed / Activity / PoE	 EMC Shock Freefall Vibration Traffic control Railway Trackside 	IEC 61000-4-4 IEC 61000-4-5 IEC 61000-4-6 IEC 61000-4-8 EN 61000-6-2 EN 61000-6-4 IEC 60068-2-27 IEC 60068-2-32 IEC 60068-2-6 NEMA TS-2 EN 50121-4
 Operating Temperature Storage Temperature Ambient Relative Humidity Overload Current Protection Reverse Polarity Protection MTBF 	-40 ~ 75°C (-40 ~ 167°F) (EKI-7712G-4FPI) -10 ~ 60°C (-40 ~ 140°F) (EKI-7712G-4FP) -40 ~ 85°C (-40 ~ 185°F) 5 ~ 95% (non-condensing) Present Present 1,001,782 hours	Switch Properties Switch Capacity Transmission Rate MAC Table Size Jumbo Frame Packet Buffer Size Max. IGMP Group Max. VLAN Group	24Gbps 17.8Mpps 8K 1,0240 Bytes 4.1Mb 256 256 (VLAN ID 1 ~ 4094)

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All product specifications are subject to change without notice.

EKI-7712G-4FP/4FPI



L2 Features

 VLAN Arrange 802.1Q Tag-based VLAN, 802.1ad QinQ VLAN Stacking
 Port Mirroring 1 to 1, N to 1 Max. Mirror Session: 4
 RSPAN Remote Switched Port Analysis

IGMP Snooping v1/v2/v3, MLD Snooping, IGMP Immediate leave

802.1ab LLDP, LLDP-MED

Broadcast, Multicast, Unknown unicast

IEEE 802.1D-STP, IEEE 802.1s-MSTP, IEEE

802.1w-RSTP, X-Ring Pro, with ultra high-speed

recovery time less than 20ms, ERPS(G.8032)

GVRP, GMRP

Modbus/TCP

- GARP
- IP Multicast
- . . .
- Storm Control
- LLDP
- Industrial Protocol
- Redundancy

QoS

- Priority Queue WRR (Weighted Round Robin), SP (Strict Scheduling
 Scheduling Priority) Hybrid Priority, Max. Priority Queues: 8
- Class of Service IEEE 802.1p Based CoS, IP TOS, DSCP based CoS
- Rate Limiting
 Ingress Rate limit, Egress Rate limit
- Link Aggregation IEEE 802.3ad Dynamic Port Trunking, Static Port Trunking

Security

- Port Security
- 802.1X
- MAB
- AuthenticationIP Security
- ACL

Management

- PoE
- DHCP
- Access
- Security Access
- Software Upgrade
- NTP

Ordering Information

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

Static/Dynamic MAC, Max. Learning Limit, MAC

IP Source Guard, DHCP Snooping, ARP Spoofing

Port-based/MAC-based Authentication (MD5/PEAP/TLS/TTLS Encryption)

Access Control List (IP-ACL, MAC-ACL)

PoE system settings, port settings and status

Client, Server, Option66/67/82, DHCP Relay

SNMP v1/v2c/v3, WEB, Telnet, RMON, Standard MIB-II, Private MIB, Ethernet-Like MIB, RMON MIB

MAC Authentication Bypass

Violation Notice

RADIUS, TACAS+

Max. ACL Entries: 128

Prevention

• EKI-7712G-4FP-AE 8GE + 4SFP Port Managed PoE Ethernet Switch

(Group 1, 2, 3, 9)

TFTP, SFTP, HTTP, Dual Image

SSH2.0, SSL

SNTP client

Note: For SFP copper type, only 1000Mbps supported.