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

8G+4G SFP 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. 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.

Specifications

n	t	e	r	fa	C	e

8 x 10/100/1000BASE-T/TX RJ-45 I/O Port 4 x SFP (mini-GBIC) port RS-232 (RJ45) Console port

 Power Connector 6-pin screw Terminal Block (including relay)

Physical

Enclosure Metal Shell Protection Class IP 30 Installation DIN-Rail

Dimensions (W x H x D) 74 x 152 x 105 mm (2.91" x 5.98" x 4.13")

LED Display

System LED PWR1, PWR2, SYS, Alarm and R.M. Port LED Link / Speed / Activity

Environment

• Operating Temperature -40 ~ 75°C (-40 ~ 167°F) (7712G-4FPI) -10 ~ 60°C (-40 ~ 140°F) (7712G-4FP)

 Storage Temperature -40 ~ 85°C

- Ambient Relative Humidity 10 ~ 95% (non-condensing) Humidity 10 ~ 95% (non-condensing)

Power

 Power Consumption 12.1W @ 48V_{DC} (System) Power Input 48 V_{DC} (46 to 57 V_{DC}),

 $53-57 V_{DC}$ is recommended for 802.3at,

redundant dual power input

 Power Budget 240W Fault Output 1 Relay Output

Certification

- EMI

UL61010-2-201 Safety IEC60950* EMC EN 61000-4-2 EN 61000-4-3 EN 61000-4-4 EN 61000-4-5 EN 61000-4-6 EN 61000-4-8 EN50121-4 IEC 60068-2-27

Shock IEC 60068-2-32 Freefall Vibration IEC 60068-2-6 Traffic control NEMA TS2

*= Compliant

Patent http://www.advantech.com/legal/patent

CE. FCC Class A

L2 Features

 L2 MAC Address **Jumbo Frame** 9216 Bytes

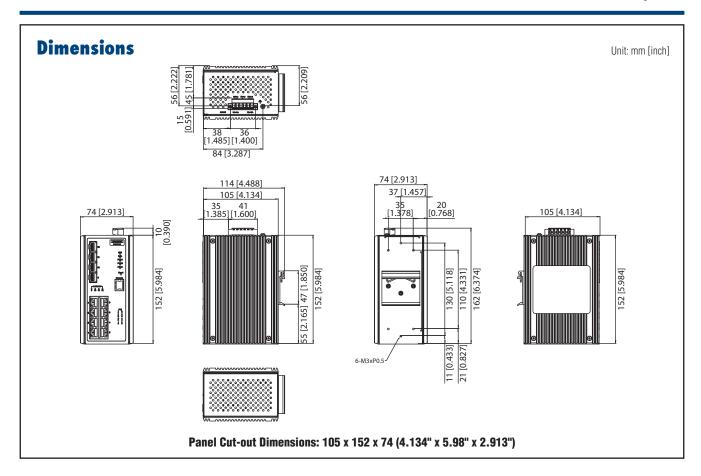
VLAN Group 256 (VLAN ID 1 ~ 4094)

VLAN Arrange Port based VLAN, Q-in-Q (VLAN Stacking), GVRP

Per port, Multi-source port, **Port Mirroring IP Multicast** IGMP Snooping v1/v2/v3, MLD Snooping, IGMP Immediate leave

Storm Control Broadcast, Multicast, Unknown unicast Redundancy IEEE 802.1D-STP. IEEE 802.1s-MSTP. IEEE 802.1w-RSTP, X-Ring Pro, with ultra high-speed

recovery time less than 20ms



QoS

Priority Queue WRR (Weighted Round Robin), SP (Strict Scheduling
Scheduling Priority) Hybrid Priority

• 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
Static, Dynamic IP Source Guard, ARP Spoofing Prevention, Access Control List, DHCP Snooping,

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

Management

DHCP Client, Server, Option66/67/82

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

Security access
SSH2.0, SSL

• **Software upgrade** TFTP, HTTP, Dual Image

• NTP SNTP client

Ordering Information

■ EKI-7712G-4FPI-BE

8GE + 4SFP Port Managed PoE Ethernet Switch w/Wide Temp

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