EKI-7708G-4FP EKI-7708G-4FPI

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



Features

- 4 x IEEE 802.3 af/at PoE Gigabit ports + 4 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
- Wide operating temperature range of -40 ~ 75°C (EKI-7708G-4FPI)
- Dual 48 V_{DC} power input and 1 x relay output



Introduction

The EKI-7708G-4FP/4FPI support 4 Gigabit IEEE 802.3 af/at PoE ports and 4 SFP (mini-GBIC) ports. These switches can provide up to 30 W per port to fulfill high-power-consumption powered device requirements. They are embedded with Advantech's IXM function, which can benefit users with fast deployment while saving a substantial amount on engineering time and costs. The EKI-7708G 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, thus ensuring network stability. The EKI-7708G-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. The EKI-7708G-4FP/4FPI meet the EN50121-4 European railway standard requirements for emissions and railway platform/trackside deployment.

Specifications

In	ite	rf	a	C	e

 I/O Port 4 x 10/100/1000BASE-T/TX RJ-45 4 x SFP (mini-GBIC) port IEEE 802.3 for 10BaseT Standards IEEE 802.3u for 100BaseT(X)/FX IEEE 802.3ab for 1000BaseT(X) IEEE 802.3z for 1000BaseX IEEE 802.3x for Flow Control Console port RS-232 (RJ45) 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 (2.913 x 5.98 x 4.134 inch)

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) (7708G-4FPI) -10 ~ 60°C (-40 ~ 140°F) (7708G-4FP) -40 ~ 85°C Storage Temperature

 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 120W Fault Output 1 Relay Output

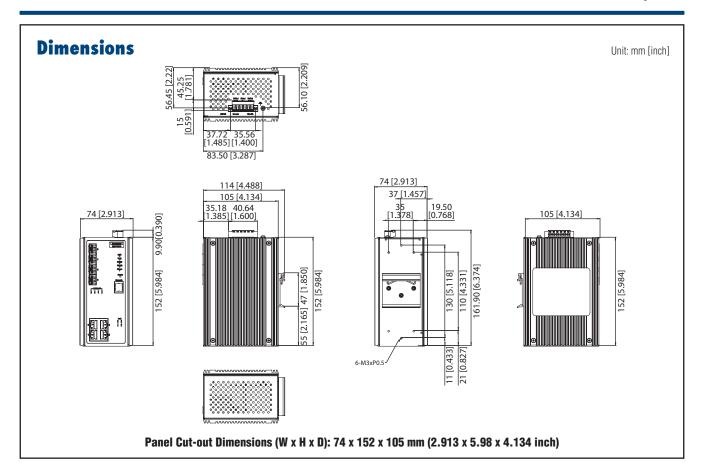
Certification

= EMI CE. FCC Class A EMC FN 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 Shock IEC 60068-2-27

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

*= Compliant

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



L2 Features

L2 MAC Address 8KJumbo Frame 9216 Bytes

■ VLAN Group 256 (VLAN ID 1 ~ 4094)

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

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

Snooping, IGMP Immediate leave

Storm Control

Redundancy

Snooping, IGMP Immediate leave

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

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-7708G-4FPI-AE** 4GE + 4G SFP Port Managed PoE Ethernet Switch w/

Wide Temp.

• **EKI-7708G-4FP-AE** 4GE + 4G SFP Port Managed PoE Ethernet Switch

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

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Advantech:

EKI-7708G-4FP-AE