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

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

Redundancy: X-Ring Pro (ultra-high-speed recovery time, <20 ms), RSTP/STP

 Security: 802.1x (port-based, MD5/TLS/TTLS/PEAP encryption), RADIUS Management: SNMP v1/v2c/v3, WEB, Telnet, standard MIB, private MIB

Wide operating temperature range of -40 ~ 75°C (EKI-7708G-4FPI)

• 4 x IEEE 802.3 af/at PoE Gigabit ports + 4 SFP ports SFP socket for easy and flexible fiber expansion

EN50121-4 approval for railway trackside deployment

Dual 48 V_{DC} power input and 1 x relay output

IXM function enables fast deployment

NEMA TS2 for traffic control

Features

(802.1w/1D)



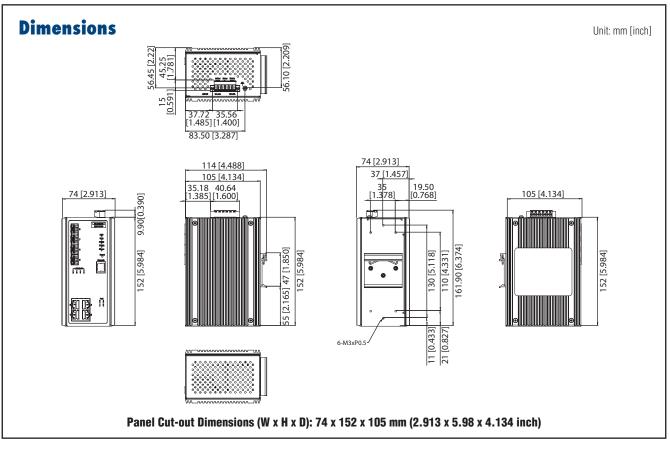
Introduction

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

Interface • I/O Port • Standards • Console port • Power Connector Physical • Enclosure • Protection Class • Installation • Dimensions (W x H x D) LED Display	4 x 10/100/1000BASE-T/TX RJ-45 4 x SFP (mini-GBIC) port IEEE 802.3 for 10BaseT IEEE 802.3u for 100BaseT(X)/FX IEEE 802.3ab for 1000BaseT(X) IEEE 802.3z for 1000BaseX IEEE 802.3x for Flow Control RS-232 (RJ45) 6-pin screw Terminal Block (including relay) Metal Shell IP 30 DIN-Rail 74 x 152 x 105 mm (2.913 x 5.98 x 4.134 inch)	Power Power Consumption Power Input Power Budget Fault Output Certification EMI EMC	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 120W 1 Relay Output CE, FCC Class A EN 61000-4-2 EN 61000-4-3 EN 61000-4-3 EN 61000-4-5 EN 61000-4-6 EN 61000-4-8 EN50121-4 IEC 60068-2-27
LED Display - System LED - Port LED Environment	PWR1, PWR2, SYS, Alarm and R.M. Link / Speed / Activity	 Shock Freefall Vibration Traffic control *= Compliant 	IEC 60068-2-27 IEC 60068-2-32 IEC 60068-2-6 NEMA TS2
 Operating Temperature Storage Temperature Ambient Relative Humidity Humidity 	-40 ~ 75°C (-40 ~ 167°F) (7708G-4FPI) -10 ~ 60°C (-40 ~ 140°F) (7708G-4FP) -40 ~ 85°C 10 ~ 95% (non-condensing) 10 ~ 95% (non-condensing)	 Patent 	http://www.advantech.com/legal/patent

EKI-7708G-4FP/4FPI



L2 Features

- L2 MAC Address
- Jumbo Frame
- VLAN Group
- VLAN Arrange
- Port Mirroring
- IP Multicast
- Storm Control
- Redundancy

QoS

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

8K

9216 Bytes

256 (VLAN ID 1 ~ 4094)

Per port, Multi-source port,

recovery time less than 20ms

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

Broadcast, Multicast, Unknown unicast IEEE 802.1D-STP, IEEE 802.1s-MSTP, IEEE

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

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

- IEEE 802.1p Based CoS, IP TOS, DSCP based CoS - Class of Service Rate Limiting Ingress Rate limit, Egress Rate limit
- Link Aggregation

Security

 Port Security Static, Dynamic IP Source Guard, ARP Spoofing Prevention, Access Control List, DHCP Snooping Authentication

IEEE 802.3ad Dynamic Port Trunking, Static Port

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

Management

- DHCP
- Access

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NTP

- Security access
- SSH2.0, SSL Software upgrade TFTP, HTTP, Dual Image SNTP client

Private MIB

Client, Server, Option66/67/82

Ordering Information

EKI-7708G-4FPI-AE

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

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

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

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