EKI-7708G-4FPI 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 at/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

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I/O Port 4 x 10/100/1000BASE-T/TX RJ-45 4 x SFP (mini-GBIC) port
Standards 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

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)

■ 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 120WFault Output 1 Relay Output

Certification

 EMI CE, FCC Class A
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
Shock IEC 60068-2-27

Shock IEC 60068-2-27
Freefall IEC 60068-2-32
Vibration IEC 60068-2-6
Traffic control NEMA TS2

*= Compliant

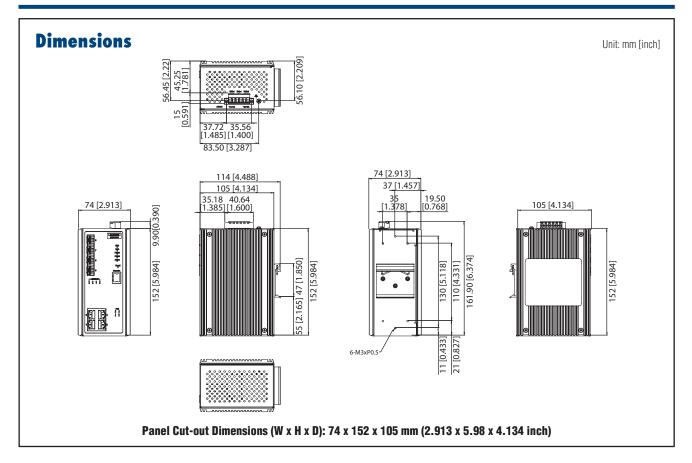
Patent http://www.advantech.com/legal/patent

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EKI-7708G-4FP/4FPI



L2 Features

IP Multicast

Redundancy

• L2 MAC Address 8K

Jumbo Frame 9216 Bytes

■ **VLAN Group** 256 (VLAN ID 1 ~ 4094)

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

Port Mirroring
Per port, Multi-source port,

IGMP Snooping v1/v2/v3, MLD

Snooping, IGMP Immediate leave

• Storm Control 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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