EKI-7708G-4FI EKI-7708G-4FI

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



Features

- 4 x 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
- Wide operating temperature range of -40 ~ 75°C (EKI-7708G-4FI)
- Dual 12 ~ 48 V_{DC} power input and 1 x relay output



Introduction

The EKI-7708G-4F and EKI-7708G-4FI provide users with abundant port options for connecting to various device types with 4 Gigabit ports and 4 SFP (mini-GBIC) ports. These switches are embedded with Advantech's IXM function, which can benefit users with fast deployment and a marked reduction in 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 to ensure network stability. The EKI-7708G-4FI in particular also features a wide operating temperature range of -40 to 75°C and a NEMA TS2 rating, making it ideal for use in traffic applications. Furthermore, these switches meet the EN50121-4 European railway standard requirement for emissions and railway platform and trackside deployment.

Specifications

interiace	
I/O Port	4 x 10/100/1000BASE-T/TX RJ-45
	4 x SFP (mini-GBIC) port
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 (2.91" 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) (7708G-4FI)
 -10 ~ 60°C (-40 ~ 140°F) (7708G-4F)

 Storage Temperature

 -40 ~ 85°C

 Ambient Relative Humidity

 10 ~ 95% (non-condensing)

Power

Humidity

Power Consumption
 12.1W @ 48V_{DC} (System)

■ **Power Input** 12 ~ 48 V_{DC}, redundant dual power input

• Fault Output 1 Relay Output

Certification

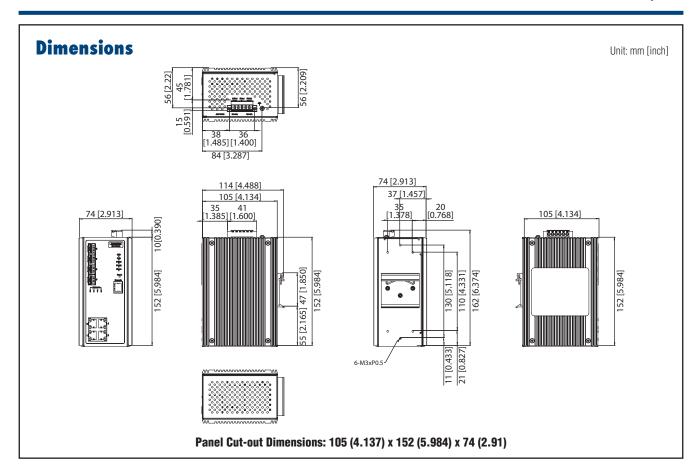
- EMI CE. FCC Class A EN 61000-4-2 EMC EN 61000-4-3 EN 61000-4-4 EN 61000-4-5 EN 61000-4-6 EN 61000-4-8 EN50121-4* Shock IEC 60068-2-27 Freefall IEC 60068-2-32 IEC 60068-2-6 Vibration Traffic control NEMA TS2*

*= Compliant **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 Port Mirroring Per port, Multi-source port, IGMP Snooping v1/v2/v3, MLD IP Multicast Snooping, IGMP Immediate leave Storm Control Broadcast, Multicast, Unknown unicast IEEE 802.1D-STP, IEEE 802.1s-MSTP, IEEE Redundancy 802.1w-RSTP, X-Ring Pro, with ultra high-speed

recovery time less than 20ms

10 ~ 95% (non-condensing)



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 Ingress Rate limit, Egress Rate limit Rate Limiting

- 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,

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

Management

DHCP Client, Server, Option66/67/82

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

Private MIB SSH2.0, SSL Security access

TFTP, HTTP, Dual Image Software upgrade

NTP SNTP client

Ordering Information

■ EKI-7708G-4FI-AE 4GE + 4G SFP Port Managed Ethernet Switch w/Wide

Temp

■ EKI-7708G-4F-AE 4GE + 4G SFP Port Managed Ethernet Switch

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