EKI-7708G-4F 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/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-4Fl 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

Interface

 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) 10 ~ 95% (non-condensing)

Humidity

Power

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

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

 Fault Output 1 Relay Output

Certification

FMI 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 Freefall IEC 60068-2-32 Vibration IEC 60068-2-6 Traffic control NFMA TS2*

*= Compliant

L2 Features

Redundancy

 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, IP Multicast 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

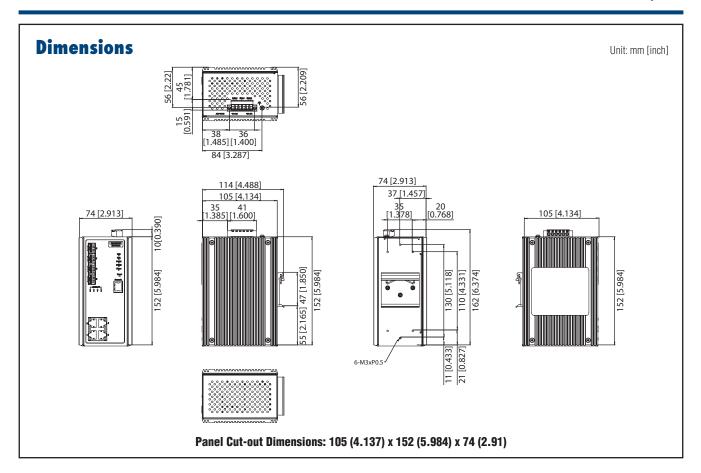
recovery time less than 20ms

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EKI-7708G-4F/4FI



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
Pate Limiting Ingress Pate Limit

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

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

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