

EKI-7708G-4F

EKI-7708G-4FI

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



Features

- ③ 4 x Gigabit ports + 4 x SFP ports
- ③ SFP socket for easy and flexible fiber expansion
- ③ Redundancy: X-Ring Pro (ultra-high-speed recovery time, <20 ms), RSTP/STP (802.1w/1D)
- ③ IXM function enables fast deployment
- ③ Security: 802.1x (port-based, MD5/TLS/TTLS/PEAP encryption), RADIUS
- ③ Management: SNMP v1/v2c/v3, WEB, Telnet, standard MIB, private MIB
- ③ NEMA TS2 for traffic control
- ③ EN50121-4 approval for railway trackside deployment
- ③ Wide operating temperature range of -40 ~ 75°C (EKI-7708G-4FI)
- ③ 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

Interface

- ③ I/O Port 4 x 10/100/1000BASE-T/TX RJ-45
4 x SFP (mini-GBIC) port
- ③ Console port RS-232 (RJ45)
- ③ Power Connector 6-pin screw
- ③ Terminal Block (including relay)

Physical

- ③ Enclosure Metal Shell
- ③ Protection Class IP 30
- ③ Installation DIN-Rail
- ③ Dimensions (W x H x D) 74 x 152 x 105 mm (2.91" x 5.98" x 4.13")

LED Display

- ③ System LED PWR1, PWR2, SYS, Alarm and R.M.
- ③ Port LED Link / Speed / Activity

Environment

- ③ Operating Temperature -40 ~ 75°C (-40 ~ 167°F) (7708G-4FI)
- ③ -10 ~ 60°C (-40 ~ 140°F) (7708G-4F)
- ③ Storage Temperature -40 ~ 85°C
- ③ Ambient Relative Humidity 10 ~ 95% (non-condensing)
- ③ Humidity 10 ~ 95% (non-condensing)

Power

- ③ Power Consumption 12.1W @ 48V_{DC} (System)
- ③ Power Input 12 ~ 48 V_{DC}, redundant dual power input
- ③ Fault Output 1 Relay Output

Certification

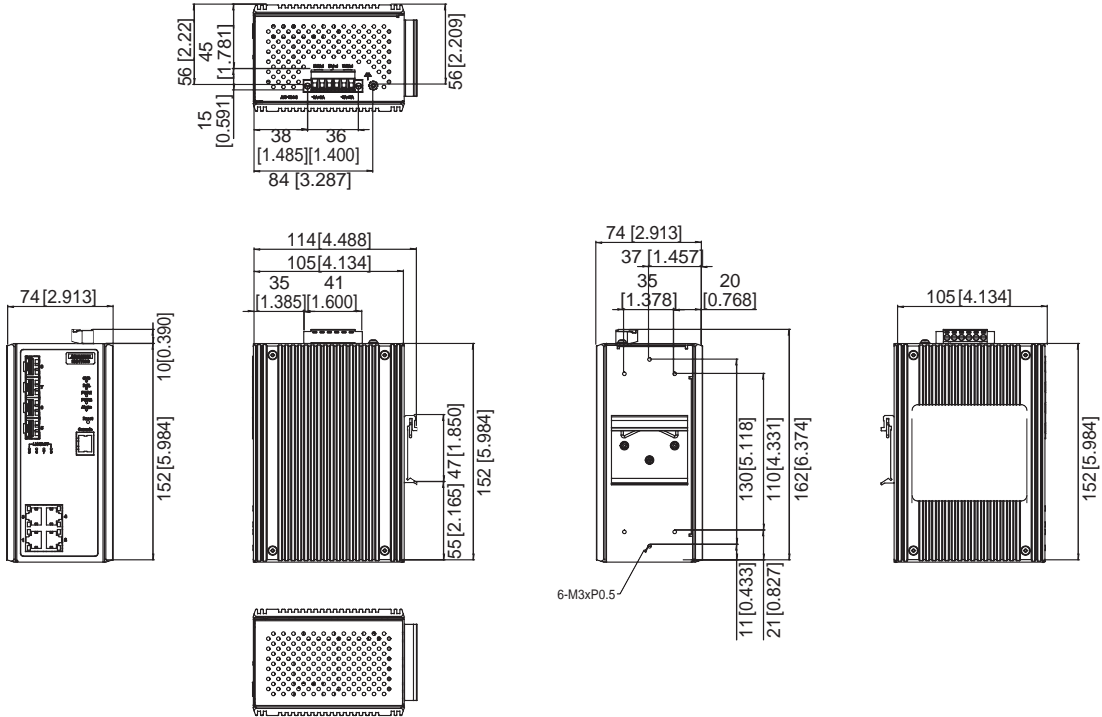
- ③ EMI CE, FCC Class A
- ③ EMC EN 61000-4-2
EN 61000-4-3
EN 61000-4-4
EN 61000-4-5
EN 61000-4-6
EN 61000-4-8
EN 50121-4*
- ③ Shock IEC 60068-2-27
- ③ Freefall IEC 60068-2-32
- ③ Vibration IEC 60068-2-6
- ③ Traffic control NEMA TS2*
- *= Compliant

L2 Features

- ③ L2 MAC Address 8K
- ③ Jumbo Frame 9216 Bytes
- ③ VLAN Group 256 (VLAN ID 1 ~ 4094)
- ③ VLAN Arrange Port based VLAN, Q-in-Q (VLAN Stacking), GVRP
- ③ Port Mirroring Per port, Multi-source port,
- ③ IP Multicast IGMP Snooping v1/v2/v3, MLD Snooping, IGMP Immediate leave
- ③ Storm Control Broadcast, Multicast, Unknown unicast
- ③ Redundancy IEEE 802.1D-STP, IEEE 802.1s-802.1w-RSTP, X-Ring Pro, with ultra high-speed recovery time less than 20ms

Dimensions

Unit: mm[inch]



Panel Cut-out Dimensions: 105 (4.137) x 152 (5.984) x 74 (2.91)

QoS

- ③ **Scheduling** (Strict Scheduling) **Priority Queue** WRR (Weighted Round Robin), SP (Priority) Hybrid Priority
- ③ **CoS, IP TOS, DSCP based CoS** **Class of Service** IEEE 802.1p Based
- ③ **Rate limit** **Rate Limiting** Ingress Rate limit, Egress
- ③ **Dynamic Port Trunking, Static Port Trunking** **Link Aggregation** IEEE 802.3ad

Security

- ③ **Port Security** Static, Dynamic IP Source Guard, ARP Spoofing Prevention, Access Control List, DHCP Snooping,
- ③ **Authentication** 802.1x (Port-Based, MD5/TLS/TLS/PEAP Encryption), TACACS+

Management

- ③ **DHCP** Client, Server, Option66/67/82
- ③ **Access** SNMP v1/v2c/v3, WEB, Telnet, RMON, Standard MIB, Private MIB
- ③ **Security access** SSH2.0, SSL
- ③ **Software upgrade** TFTP, HTTP, Dual Image
- ③ **NTPSntp client**

Ordering Information

- ③ **EKI-7708G-4FI-AE** 4GE + 4G SFP Port Managed Ethernet Switch w/Wide Temp
- ③ **EKI-7708G-4F-AE** 4GE + 4G SFP Port Managed Ethernet Switch

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

