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

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

Features

③ 4 x IEEE 802.3 af/at PoE Gigabit ports + 4 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-4FPI)

③ Dual 48 V_{DC} power input and 1 x relay output

IPv6 5 Year Warranty CE FCC RoHS COMPLIANT 2002/95/EC

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

③ **I/O Port** 4 x 10/100/1000BASE-T/TX RJ-45
4 x SFP (mini-GBIC) port

③ **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

③ **Console port** RS-232 (RJ45)

③ **Power Connector** 6-pin screw 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 (2.913 x 5.98 x 4.134 inch)

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-4FPI)

-10 ~ 60°C (-40 ~ 140°F) (7708G-4FP)

③ **Storage Temperature** -40 ~ 85°C

③ **Ambient Relative Humidity** 10 ~ 95%
(non-condensing)

③ **Humidity** 10 ~ 95% (non-condensing)

Power

③ (System) **Power Consumption** 12.1W @ 48V_{DC}

③ **Power Input** 48 V_{DC} (46 to 57 V_{DC}),
53-57 V_{DC} is recommended for 802.3at,
redundant dual power input

③ **Power Budget** 120W

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
EN50121-4

③ **Shock** IEC 60068-2-27

③ **Freefall** IEC 60068-2-32

③ **Vibration** IEC 60068-2-6

③ **Traffic control** NEMA TS2
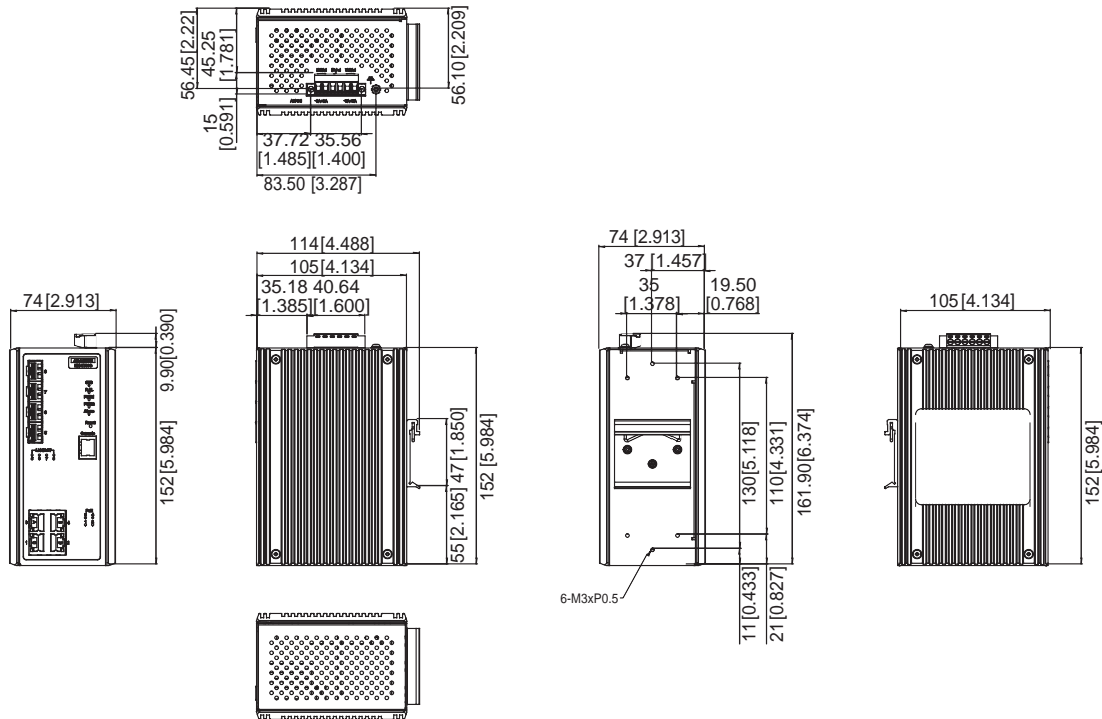
*= Compliant

③ **Patent** http://www.advantech.com/legal/patent

Dimensions

Unit: mm [inch]

Panel Cut-out Dimensions (W x H x D): 74 x 152 x 105 mm (2.913 x 5.98 x 4.134 inch)

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-MSTP, IEEE 802.1w-RSTP, X-Ring Pro, with ultra high-speed recovery time less than 20ms

QoS

③ **Priority Queue** WRR (Weighted Round Robin), SP (Strict Scheduling

Scheduling Priority) Hybrid Priority

③ **Class of Service** IEEE 802.1p Based CoS, IP TOS, DSCP based CoS

③ **Rate Limiting** Ingress Rate limit, Egress Rate limit

③ **Link Aggregation** IEEE 802.3ad Dynamic Port Trunking, Static Port Trunking

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/TTLS/PEAP

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 **NTP** SNTP client

Ordering Information

③ **EKI-7708G-4FPI-AE** 4GE + 4G SFP Port Managed PoE Ethernet Switch w/ Wide Temp.

③ **EKI-7708G-4FP-AE** 4GE + 4G SFP Port Managed PoE Ethernet Switch

Encryption), TACACS+

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

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