EKI-7708G-4FP
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
- -40 ~ 75°C wide-range operating temperature (EKI-7708G-4FPI)
- Dual 48 V_{DC} power input and 1 relay output

Introduction

EKI-7708G-4FP/4FPI supports 4 Gigabit IEEE 802.3 af/at PoE ports and 4 SFP (mini-GBIC) ports. They can provide up to 30 watts per port to fulfill high power consumption PD (Power Device) requirements. They are embedded with Advantech's IXM function, which can benefit users for fast deployment and can dramatically save engineers time and cost. The EKI-7708G series also supports NMS to help IT managers with networking maintenance and failure prevention. Finally, the EKI-7708G series is equipped with X-Ring Pro which can achieve ultra high speed recovery time of less than 20 ms to ensure network stability. The switch also features a wide -40° to 75°C operating temperature (EKI-7708G-4FPI) and NEMA TS2 rating, making the switch an ideal solution for use in traffic applications. EKI-7708G-4FP/4FPI has successfully passed the EN50121-4 European railway standard requirements 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-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** — 120W
- **Fault 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
- **Freefall** — IEC 60068-2-32
- **Vibration** — IEC 60068-2-6
- **Traffic control** — NEMA TS2

*= Compliant

- **Patent** — http://www.advantech.com/legal/patent

L2 Features

- **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,
- **IP Multicast** — IGMP Snooping v1/v2/v3, MLD Snooping, IGMP Immediate leave
- **Storm Control** — Broadcast, Multicast, Unknown unicast
- **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

---

ADVANTECH | **Industrial Ethernet Soultions**

Dimensions

Unit: mm [inch]
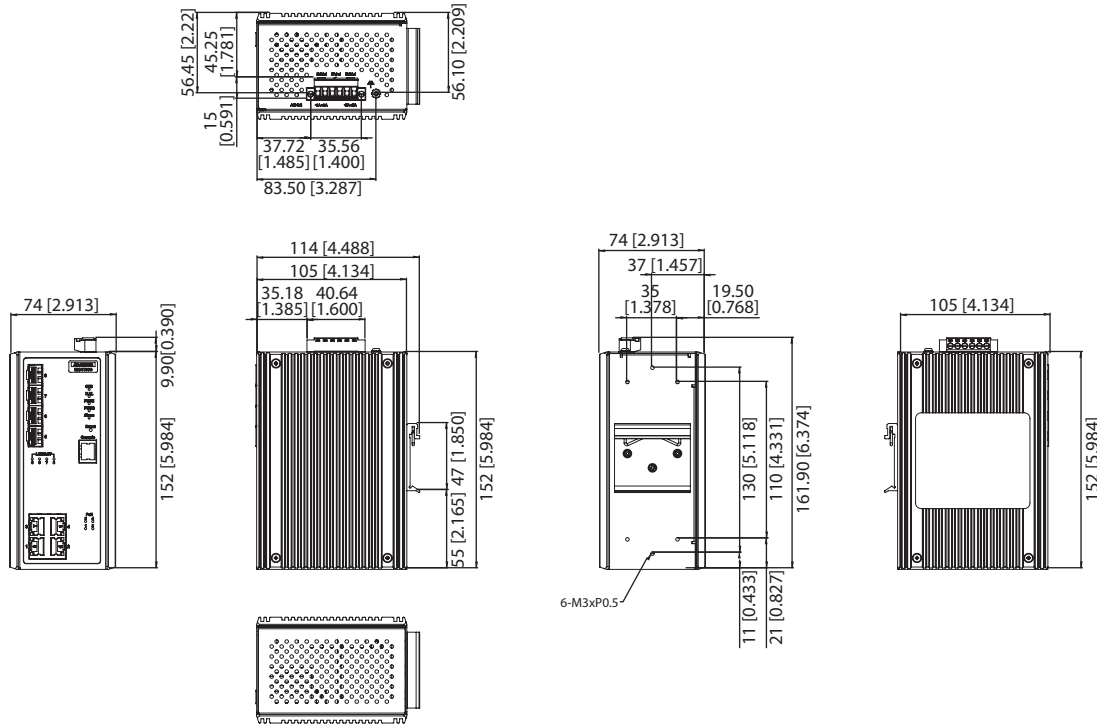
Panel Cut-out Dimensions: 105 x 152 x 74 (4.134" x 5.98" x 2.913")

QoS

- **Priority Queue Scheduling** — WRR (Weighted Round Robin), SP (Strict 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
- **Authentication** — 802.1x (Port-Based, MD5/TLS/TTLS/PEAP Encryption)

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

X-ON Electronics

Largest Supplier of Electrical and Electronic Components

Click to view similar products for Ethernet Modules *category:*

Click to view products by Advantech *manufacturer:*

Other Similar products are found below :

I350T4V2 GX-OD1612 TDKEZW3 I350T2V2 V23993-USB1029A I350T4V2BLK I350T2V2BLK FC6A-PH1 GX-ID1611 BCM84794A1KFSBG X710T2L X710T4LBLK BOXER-6614-A1M-1110 ED-593 EL2809-0015 RSB20-0800T1T1SAAB 1005957 1005TX 1006191 104TX 105TX 108TX MESP211T WIZ107SR_TTL SFP-100FX-M-2KM-T ES-320 851-10912 MOD-54417-100IR TDKEZW5 855-10619 2003025 2003037 2013040 2013050 2014120 2014126 2014130 2014134 2014140 2014150 2017008 2018108 2032008 2036040 2036050 750-1405 EKI-5626C-AE 24030060000 24030082110 70002039