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

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



IPv6

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

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 I/O Port Console port Power Connector	4 x 10/100BASE-T/TX RJ-45 4 x SFP (mini-GBIC) port RS-232 (RJ45) 6-pin screw Terminal Block (including relay)	Certification EMI EMC	CE, FCC Class A EN 61000-4-2 EN 61000-4-3 EN 61000-4-4 EN 61000-4-5 EN 61000-4-6
Physical Enclosure Protection Class Installation Dimensions (W x H x D) LED Display System LED Port LED 	Metal Shell IP 30 DIN-Rail 74 x 152 x 105 mm (2.91" x 5.98" x 4.13") PWR1, PWR2, SYS, Alarm and R.M. Link / Speed / Activity	 Shock Freefall Vibration Traffic control *= Compliant Patent 	EN 61000-4-8 EN50121-4 IEC 60068-2-27 IEC 60068-2-32 IEC 60068-2-6 NEMA TS2 http://www.advantech.com/legal/patent
Environment • Operating Temperature • Storage Temperature • Ambient Relative Humidity • Humidity Power • Power Consumption • Power Input	-40 ~ 75°C (-40 ~ 167°F) (7708G-4FPI) -10 ~ 60°C (-40 ~ 140°F) (7708G-4FP) -40 ~ 85°C 10 ~ 95% (non-condensing) 10 ~ 95% (non-condensing) 12.1W @ $48V_{DC}$ (System) 48 V_{DC} (46 to 57 V_{DC}), 53 -57 V_{DC} is recommended for 802.3at, redundant dual power input	L2 Features L2 MAC Address Jumbo Frame VLAN Group VLAN Arrange Port Mirroring IP Multicast Storm Control Redundancy	8K 9216 Bytes 256 (VLAN ID 1 ~ 4094) Port based VLAN, Q-in-Q (VLAN Stacking), GVRP Per port, Multi-source port, IGMP Snooping v1/v2/v3, MLD Snooping, IGMP Immediate leave 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

AD\ANTECH **Industrial Ethernet Solutions**

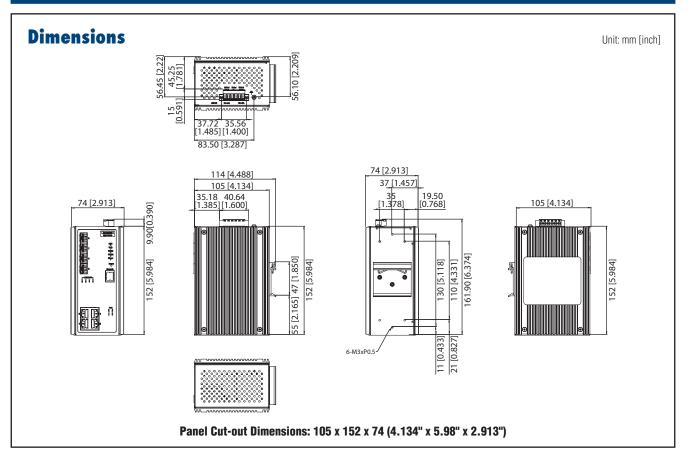
120W

1 Relay Output

Power Budget

- Fault Output

EKI-7708G-4FP/4FPI



QoS

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

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

SNTP client

Trunking

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

Client, Server, Option66/67/82

Management

Security access

Software upgrade

- DHCP
- Access

SNMP v1/v2c/v3, WEB, Telnet, RMON, Standard MIB, Private MIB SSH2.0, SSL TFTP, HTTP, Dual Image

IEEE 802.3ad Dynamic Port Trunking, Static Port

NTP

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