# **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)</p>
- ③ IXM function enables fast deployment
- ③ Security: 802.1x (port-based, MD5/TLS/TTLS/PEAP encryption), RADIUS
- 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<sub>DC</sub> power input and 1 x relay output



**Ambient Relative Humidity** 

Humidity

# **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**

85°C

(3)

(non-condensing)

condensing)

Interface			Power			
3 I/O Port	4 x 10/100/1000BASE-T/TX RJ-45 4 x SFP (mini-GBIC) port		③ (System)	Power Consumption	12.1W @ 48V <sub>DC</sub>	
③ 10BaseT	Standards	IEEE 802.3 for	3	53-57 V <sub>DC</sub> is recommend		
	IEEE 802.3u for 100BaseT(X)/FX IEEE 802.3ab for 1000BaseT(X) IEEE 802.3z for 1000BaseX		③ ③	redundant dual power input  Power Budget 120W  Fault Output 1 Relay Output		
3	IEEE 802.3x for Flow		Certification	·	,	
③ Block (including relay)	Power Connector	, ,	③ ③ <b>EMC</b>	EMI CE, FCC Class A EN 61000-4-2		
Physical				EN 61000-4-3 EN 61000-4-4 EN 61000-4-5		
3	Enclosure Protection Class	Metal Shell IP 30		EN 61000-4-5 EN 61000-4-6 EN 61000-4-8		
③ ③ Dimensions (W x H x D)	Installation DIN-Rail 74x152x105mm(2.913x5.98x4.134inch)		3 Shock	EN50121-4 IEC 60068-2-27		
LED Display	System LED	PWR1, PWR2, SYS,	③ ③		068-2-32 0068-2-6	
Alarm and R.M.	PortLED	Link/Speed/	③ *= Compliant	Traffic control NEMA	TS2	
Activity	TORLED	шик/ ореец/	3	Patent ech.com/legal/patent		
Environment						
③ (-40~167°F)(7708G-4FPI)	Operating Temper					
3	-10~60°C (-40~140 Storage Temperate					

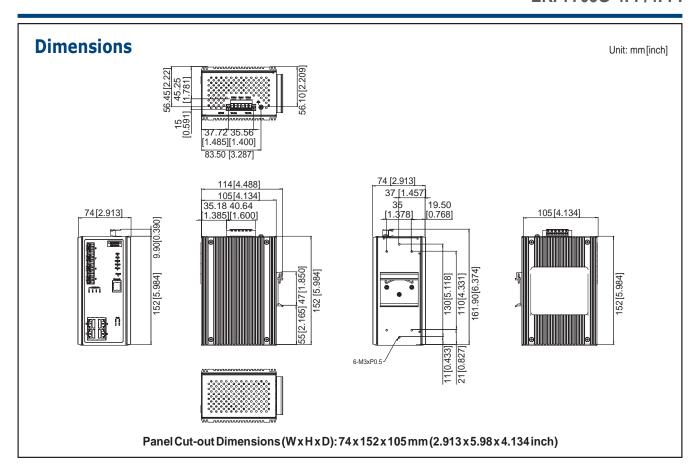
10 ~ 95%

10 ~ 95%(non-

## **Industrial Ethernet Solutions**

 $All product specifications \, are subject to \, change \, without \, notice.$ 

Last updated: 15-Sep-2020



#### 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,

③ IP Multicast IGMP Snooping v1/v2/v3, MLD Snooping, IGMP Immediate leave

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

Priority Queue WRR (Weighted Round Robin), SP

(Strict Scheduling

Scheduling Priority) Hybrid Priority

3 Class of Service IEEE 802.1p Based

CoS, IPTOS, 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

3 Port Security Static, Dynamic IP Source Guard, ARP Spoofing

Prevention, Access Control List, DHCP Snooping **Authentication** 802.1x (Port-Based, MD5/TLS/TTLS/PEAP

Management

3

3

DHCP Client, Server, Option66/67/82
Access SNMP v1/v2c/v3, WEB, Telnet.

RMON, Standard MIB, Private MIB

Security access SSH

Security access SSH2.0, SSL
 Software upgrade TFTP, HTTP, Dual Image

3 NTPSNTP client

# **Ordering Information**

③ **EKI-7708G-4FPI-AE** 4GE+4GSFPPort

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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