# EKI-7708G-4F EKI-7708G-4FI

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



#### **Features**

- 4 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-4FI)
- Dual 12 ~ 48 V<sub>DC</sub> power input and 1 relay output

## Introduction

EKI-7708G-4F/4FI provides users with abundant ports to connect to many devices with 4 Gigabit ports and 4 SFP (mini-GBIC) ports. It is 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 support 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-4FI) and NEMA TS2 rating, making the switch an ideal solution for use in traffic applications. EKI-7708G-4F/4FI has successfully passed the EN50121-4 European railway standard requirement for emissions and railway platform and trackside deployment.

Certification

## **Specifications**

#### Interface

- Fault Output

	ocranoation	
4 x 10/100/1000Base-T/TX RJ-45	= EMI	CE, FCC Class A
4 x SFP (mini-GBIC) port	EMC	EN 61000-4-2
RS-232 (RJ45)		EN 61000-4-3
		EN 61000-4-4
· ····································		EN 61000-4-5
		EN 61000-4-6
Metal Shell		EN 61000-4-8 EN50121-4*
IP 30	- Chook	
		IEC 60068-2-27
		IEC 60068-2-32
14 × 102 × 100 mm (2.01 × 0.00 × 4.10 )		IEC 60068-2-6
	<ul> <li>Traffic control</li> </ul>	NEMA TS2*
PWR1_PWR2_SYS_Alarm and R M	*= Compliant	
Eniky Speed / Activity	L2 Features	
	L2 MAC Address	8K
-40 ~ 75°C (-40 ~ 167°F) (7708G-4FI)	<ul> <li>Jumbo Frame</li> </ul>	9216 Bytes
. , , , , ,	<ul> <li>VLAN Group</li> </ul>	256 (VLAN ID 1 ~ 4094)
	VLAN Arrange	Port based VLAN, Q-in-Q (VLAN Stacking), GVRP
	<ul> <li>Port Mirroring</li> </ul>	Per port, Multi-source port,
	<ul> <li>IP Multicast</li> </ul>	IGMP Snooping v1/v2/v3, MLD
		Snooping, IGMP Immediate leave
	Storm Control	Broadcast, Multicast, Unknown unicast
12 1W @ 48Vpc (System)	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
	RS-232 (RJ45) 6-pin screw Terminal Block (including relay)	$4 \ge 10/100/1000Base-T/TX RJ-45$ $4 \ge SFP$ (mini-GBIC) port RS-232 (RJ45) 6-pin screw Terminal Block (including relay)• EMI • EMCMetal Shell IP 30 DIN-Rail 

1 Relay Output

## EKI-7708G-4F/4FI



#### QoS

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

Trunking

Static, Dynamic

Private MIB

SSH2.0, SSL

SNTP client

TFTP, HTTP, Dual Image

- Rate Limiting
- Link Aggregation

#### Security

- Port Security
- Authentication

#### Management

- DHCP
- Security access
- Software upgrade
- NTP

## **Ordering Information**

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

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

SNMP v1/v2c/v3, WEB, Telnet, RMON, Standard MIB,

IEEE 802.3ad Dynamic Port Trunking, Static Port

- Client, Server, Option66/67/82
- Access