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_{DC} 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

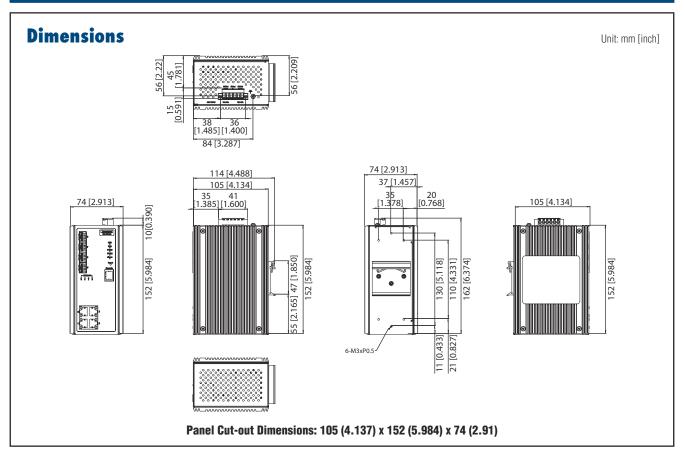
Interface

- Fault Output

Interface		outinoution	
I/O Port	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
 Console port 	RS-232 (RJ45)		EN 61000-4-3
 Power Connector 	6-pin screw Terminal Block (including relay)		EN 61000-4-4
	· ····································		EN 61000-4-5
Physical			EN 61000-4-6
Enclosure	Metal Shell		EN 61000-4-8 EN50121-4*
Protection Class	IP 30	Shock	
 Installation 	DIN-Rail		IEC 60068-2-27
 Dimensions (W x H x D) 	74 x 152 x 105 mm (2.91" x 5.98" x 4.13")	 Freefall 	IEC 60068-2-32
	74 × 152 × 165 mm (2.51 × 5.50 × 4.15)	 Vibration 	IEC 60068-2-6
LED Display		 Traffic control 	NEMA TS2*
 System LED 	PWR1, PWR2, SYS, Alarm and R.M.	*= Compliant	
 Port LED 	Link / Speed / Activity		
	Link / Opecu / Activity	L2 Features	
Environment		L2 MAC Address	8K
 Operating Temperature 	-40 ~ 75°C (-40 ~ 167°F) (7708G-4FI)	 Jumbo Frame 	9216 Bytes
- operating reinperature	-10 ~ 60°C (-40 ~ 140°F) (7708G-4F)	VLAN Group	256 (VLAN ID 1 ~ 4094)
 Storage Temperature 	-40 ~ 85°C	 VLAN Arrange 	Port based VLAN, Q-in-Q (VLAN Stacking), GVRP
 Ambient Relative Humidity 	10 ~ 95% (non-condensing)	 Port Mirroring 	Per port, Multi-source port,
 Humidity 	10 ~ 95% (non-condensing)	IP Multicast	IGMP Snooping v1/v2/v3, MLD
- Humany	10 ~ 95 % (Holf-condensing)		Snooping, IGMP Immediate leave
Power		Storm Control	Broadcast, Multicast, Unknown unicast
Power Consumption	12.1W @ 48V _{DC} (System)	Redundancy	IEEE 802.1D-STP, IEEE 802.1s-MSTP, IEEE
 Power Input 	$12 \sim 48 V_{DC}$, redundant dual power input	-	802.1w-RSTP, X-Ring Pro, with ultra high-speed
 Fault Output 	1 Belay Output		recovery time less than 20ms

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

SNTP client

- Rate Limiting
- Link Aggregation

Security

- Port Security
- Authentication

Management

- DHCP
- 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

Client, Server, Option66/67/82 SNMP v1/v2c/v3, WEB, Telnet, RMON, Standard MIB,

IEEE 802.3ad Dynamic Port Trunking, Static Port

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

- Private MIB SSH2.0, SSL
- Security access TFTP, HTTP, Dual Image