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

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



IPv6

Features

- 4 x Gigabit ports + 4 x 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-4FI)
- Dual 12 ~ 48 V_{DC} power input and 1 x relay output

Introduction

The EKI-7708G-4F and EKI-7708G-4FI provide users with abundant port options for connecting to various device types with 4 Gigabit ports and 4 SFP (mini-GBIC) ports. These switches are embedded with Advantech's IXM function, which can benefit users with fast deployment and a marked reduction in 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 to ensure network stability. The EKI-7708G-4FI in particular also features a wide operating temperature range of -40 to 75°C and a NEMA TS2 rating, making it ideal for use in traffic applications. Furthermore, these switches meet the EN50121-4 European railway standard requirement for emissions and railway platform and trackside deployment.

Certification

Specifications

Interface

Interface			
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
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Physical			EN 61000-4-6
Enclosure	Metal Shell		EN 61000-4-8 EN50121-4*
Protection Class	IP 30	Shock	IEC 60068-2-27
 Installation 	DIN-Bail	 Shock Freefall 	IEC 60068-2-32
 Dimensions (W x H x D) 	74 x 152 x 105 mm (2.91" x 5.98" x 4.13")	 Vibration 	IEC 60068-2-52
LED Display		 Traffic control 	NEMA TS2*
 System LED 	PWR1, PWR2, SYS, Alarm and R.M.	*= Compliant	
 Port LED 	Link / Speed / Activity	L2 Features	
F		 L2 MAC Address 	8K
Environment		 Jumbo Frame 	***
 Operating Temperature 	-40 ~ 75°C (-40 ~ 167°F) (7708G-4FI)		9216 Bytes
	-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
-			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 	$12 \sim 48 V_{\text{DC}}$, redundant dual power input		802.1w-RSTP, X-Ring Pro, with ultra high-speed
 Fault Output 	1 Relay Output		recovery time less than 20ms

AD\ANTECH Industrial Ethernet Solutions

EKI-7708G-4F/4FI



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

Trunking

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

- DHCP
- Access

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

Client, Server, Option66/67/82 SNMP v1/v2c/v3, WEB, Telnet, RMON, Standard MIB, Private MIB SSH2.0, SSL TFTP, HTTP, Dual Image SNTP client

IEEE 802.3ad Dynamic Port Trunking, Static Port