EKI-7708E-4F EKI-7708E-4FI

4FE+4G SFP Port Gigabit Managed **Redundant Industrial Switch**



Features

- 4 x fast Ethernet 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 for fast deployment
- Security: 802.1x (port-based, MD5/TLS/TLS/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-7708E-4FI)
- Dual 12 ~ 48 V_{DC} power input and 1 x relay output

Introduction

The EKI-7708E-4F and EKI-7708E-4FI provide users with abundant port options for connecting to various device types, with 4 fast Ethernet ports and 4 SFP (mini-GBIC) ports. These switches are embedded with Advantech's IXM function, which can benefit users with fast deployment while offering considerable savings on engineering time and costs. The series also support NMS to help IT managers with networking maintenance and failure prevention. Finally, these switches are equipped with X-Ring Pro, which can achieve ultra-high-speed recovery times of <20 ms, thus ensuring network stability. The EKI-7708E-4FI features a wide operating temperature range of -40 ~ 75°C and a NEMA TS2 rating, making it ideal for use in traffic applications. Both switches in this series meet the EN50121-4 European railway standard requirements for emissions and railway platform and trackside deployment.

Specifications

Interface

I/O Port

- Standards
- Console port
- Power Connector

Physical

- Enclosure
- Protection Class
- Installation
- Dimensions (W x H x D)

LED Display

- System LED
- Port LED
- Environment
- Operating Temperature
- Storage Temperature
- Ambient Relative Humidity
- Humidity

Power

- Power Consumption
- Power Input
- Fault Output

4 x 10/100BASE-T/TX RJ-45 4 x SFP (mini-GBIC) port IEEE 802.3 for 10BaseT IEEE 802.3u for 100BaseT(X)/FX IEEE 802.3z for 1000BaseX IEEE 802.3x for Flow Control RS-232 (RJ45) 6-pin screw Terminal Block (including relay)

IPv6 5 CEFCC Rohs

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

-40 ~ 75°C (-40 ~ 167°F) (7708E-4FI) -10 ~ 60°C (-40 ~ 140°F) (7708E-4F) -40~85°C 10 ~ 95% (non-condensing)

10 ~ 95% (non-condensing)

12.1W @ 48V_{DC} (System) 12 ~ 48 V_{DC}, redundant dual power input 1 Relay Output

Certification

EMI	CE, FCC Class A
EMC	EN 61000-4-2
	EN 61000-4-3
	EN 61000-4-4
	EN 61000-4-5
	EN 61000-4-6
	EN 61000-4-8
	EN 61000-6-2
	EN 61000-6-4
	EN50121-4*
Shock	IEC 60068-2-27
Freefall	IEC 60068-2-32
Vibration	IEC 60068-2-6
Traffic control	NEMA TS2*

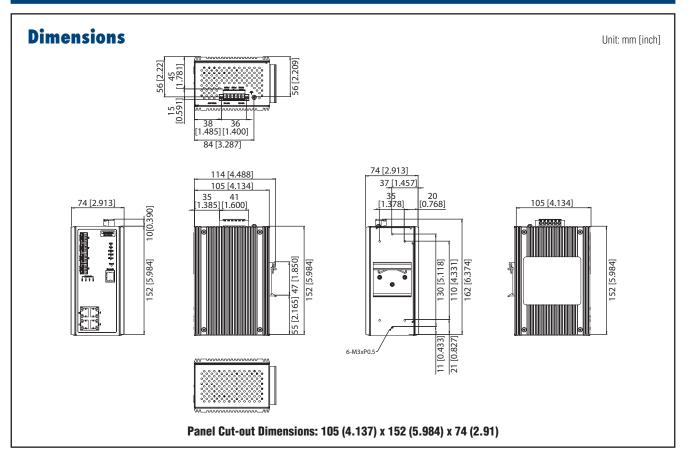
*= Compliant

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,
IP Multicast	IGMP Snooping v1/v2/v3, MLD
	Snooping, IGMP Immediate leave
Storm Control	Broadcast, Multicast, Unknown unicast
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

AD\ANTECH Industrial Ethernet Solutions All product specifications are subject to change without notice.

EKI-7708E-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

- 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

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802.1x (Port-Based, MD5/TLS/TTLS/PEAP
Encryption), TACACS+
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SNMP v1/v2c/v3, WEB, Telnet, RMON, Standard MIB,

Management

 DHCP Client, Server, Option66/67/82

Private MIB

SNTP client

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

IEEE 802.3ad Dynamic Port Trunking, Static Port

Ordering Information

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