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

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



Features

- 4 Fast Ethernet 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-7708E-4FI)
- Dual 12 ~ 48 V_{DC} power input and 1 relay output

Introduction

EKI-7708E-4F/4FI provides user with abundant ports to connect to many devices and with 4 Fast Ethernet 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-7708E series also supports NMS to help IT managers with networking maintenance and failure prevention. Finally, the EKI-7708E series is equipped with X-Ring Pro which can achieve ultra high speed recovery times of less than 20 ms to ensure network stability. The switch also features a wide -40° to 75°C operating temperature (EKI-7708E-4FI) and NEMA TS2 rating, making the switch ideal solution for use in traffic applications. EKI-7708E-4F/4FI has successfully passed the EN50121-4 European railway standard requirements for emissions and railway platform and trackside deployment.

Specifications

Interface

•	I/0	Port	

- 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

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

Link / Speed / Activity

4 x 10/100Base-T/TX RJ-45 4 x SFP (mini-GBIC) port

6-pin screw Terminal Block (including relay)

74 x 152 x 105 mm (2.91" x 5.98" x 4.13")

PWR1, PWR2, SYS, Alarm and R.M.

RS-232 (RJ45)

Metal Shell

IP 30

DIN-Rail

Ambient Relative Humidity Humidity 10 ~ 95% (non-condensing)

Power

- Power Consumption
- Power Input
- Fault Output

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

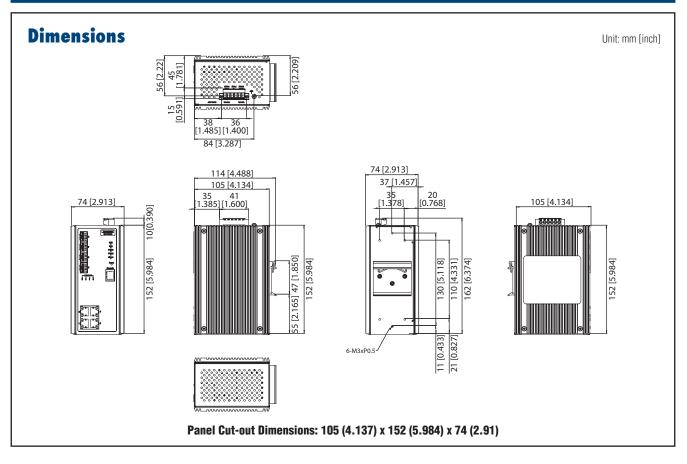
Certification

•	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
		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 Jumbo Frame VLAN Group VLAN Arrange Port Mirroring IP Multicast 	8K 9216 Bytes 256 (VLAN ID 1 ~ 4094) Port based VLAN, Q-in-Q (VLAN Stacking), GVRP Per port, Multi-source port, IGMP Snooping v1/v2/v3, MLD Snooping, IGMP Immediate leave
Storm ControlRedundancy	Broadcast, Multicast, Unknown unicast IEEE 802.1D-STP, IEEE 802.1s-MSTP, IEEE 802.1w-RSTP, X-Ring Pro, with ultra high-speed recovery time less than 20ms

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

Static, Dynamic

- Rate Limiting
- Link Aggregation

Security

- Port Security
- Authentication

Management

- DHCP
- Access
- Security access
- Software upgrade
- NTP

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

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

IEEE 802.3ad Dynamic Port Trunking, Static Port

- 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