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/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-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/0 P	ort

- Standards
- Console nort
- 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

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

4 x 10/100BASE-T/TX RJ-45

IEEE 802.3u for 100BaseT(X)/FX

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.

-40 ~ 75°C (-40 ~ 167°F) (7708E-4FI)

-10 ~ 60°C (-40 ~ 140°F) (7708E-4F)

10 ~ 95% (non-condensing)

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Link / Speed / Activity

-40 ~ 85°C

4 x SFP (mini-GBIC) port

IEEE 802.3z for 1000BaseX

IEEE 802.3x for Flow Control

IEEE 802.3 for 10BaseT

RS-232 (RJ45)

Metal Shell

IP 30

DIN-Rail

Certification

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

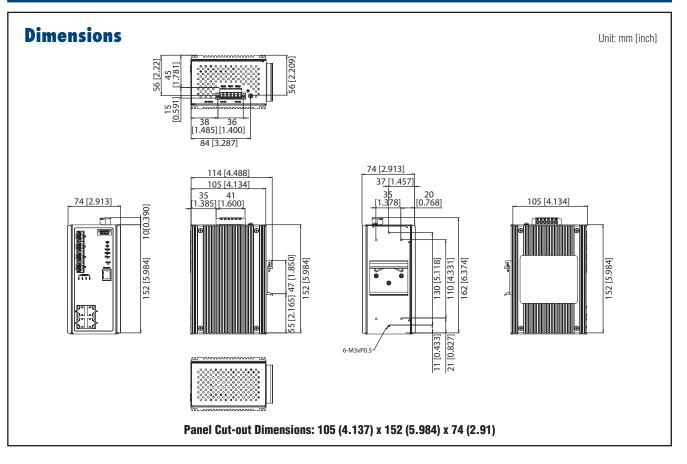
L2 Features

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

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EKI-7708E-4F/4FI



QoS

- Priority Queue
- Scheduling
- Class of Service Rate Limiting
- Link Aggregation

Security

- Port Security
- Authentication

Management

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

WRR (Weighted Round Robin), SP (Strict Scheduling Priority) Hybrid Priority

- IEEE 802.1p Based CoS, IP TOS, DSCP based CoS
- Ingress Rate limit, Egress Rate limit
- IEEE 802.3ad Dynamic Port Trunking, Static Port Trunking

Static, Dynamic IP Source Guard, ARP Spoofing Prevention, Access Control List, DHCP Snooping, 802.1x (Port-Based, MD5/TLS/TTLS/PEAP

- Encryption), TACACS+
- 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

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

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