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







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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

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 I/O Port 4 x 10/100BASE-T/TX RJ-45 4 x SFP (mini-GBIC) port RS-232 (RJ45) Console port

 Power Connector 6-pin screw Terminal Block (including relay)

Physical

Enclosure Metal Shell Protection Class IP 30 Installation DIN-Rail

Dimensions (W x H x D) 74 x 152 x 105 mm (2.91" x 5.98" x 4.13")

LED Display

System LED PWR1, PWR2, SYS, Alarm and R.M. Port LED Link / Speed / Activity

Environment

 Operating Temperature -40 ~ 75°C (-40 ~ 167°F) (7708E-4FI) -10 ~ 60°C (-40 ~ 140°F) (7708E-4F) -40 ~ 85°C

Storage Temperature

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

- Power Consumption 12.1W @ 48V_{DC} (System)

 Power Input 12 ~ 48 V_{DC}, redundant dual power input

 Fault Output 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 IEC 60068-2-6 Vibration Traffic control NEMA TS2*

L2 Features

*= Compliant

 L2 MAC Address 8K Jumbo Frame 9216 Bytes

 VLAN Group 256 (VLAN ID 1 ~ 4094)

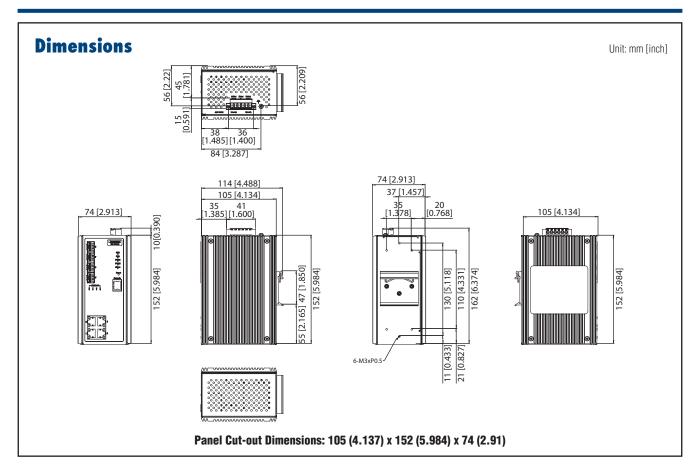
Port based VLAN, Q-in-Q (VLAN Stacking), GVRP **VLAN Arrange**

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 IEEE 802.1D-STP, IEEE 802.1s-MSTP, IEEE Redundancy

802.1w-RSTP, X-Ring Pro, with ultra high-speed

recovery time less than 20ms



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 Rate Limiting Ingress Rate limit, Egress Rate limit

- Link Aggregation IEEE 802.3ad Dynamic Port Trunking, Static Port Trunking

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 Encryption), TACACS+

Management

DHCP Client, Server, Option66/67/82

Access SNMP v1/v2c/v3, WEB, Telnet, RMON, Standard MIB, Private MIB

SSH2.0, SSL Security access

TFTP, HTTP, Dual Image Software upgrade

NTP 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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