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





6-pin screw Terminal Block (including relay)

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 Standards IEEE 802.3 for 10BaseT IEEE 802.3u for 100BaseT(X)/FX IEEE 802.3z for 1000BaseX IEEE 802.3x for Flow Control Console port RS-232 (RJ45)

Physical

Power Connector

Enclosure Metal Shell IP 30 Protection Class 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) Storage Temperature -40 ~ 85°C - Ambient Relative Humidity 10 ~ 95% (non-condensing)

Power

Humidity

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

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

 Fault Output 1 Relay Output

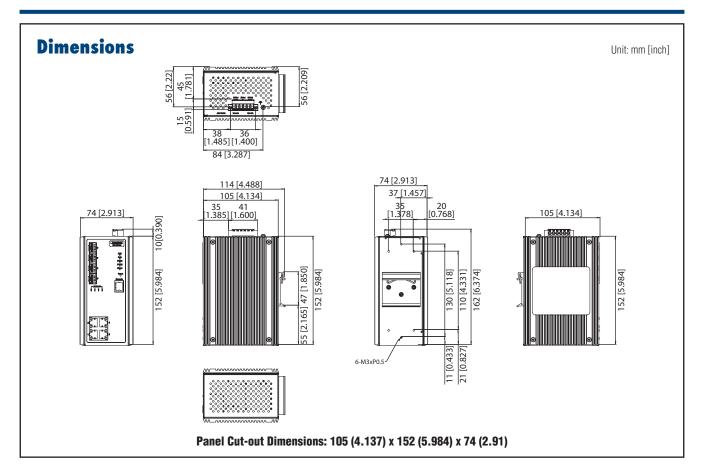
Certification

- 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 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 NEMA TS2* Traffic control

*= 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, IGMP Snooping v1/v2/v3, MLD IP Multicast 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

10 ~ 95% (non-condensing)



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 Rate Limiting

- 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,

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

Management

Security access

DHCP Client, Server, Option66/67/82

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

Private MIB SSH2.0, SSL

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

Note: For SFP copper type, only 1000Mbps supported.

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Advantech:

EKI-7708E-4FI-AE