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



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



Features

- 3 4 x fast Ethernet ports + 4 x SFP ports
- ③ SFP socket for easy and flexible fiber expansion
- 3 Redundancy: X-Ring Pro (ultra-high-speed recovery time, <20 ms), RSTP/STP (802.1w/1D)
- ③ IXM function for fast deployment
- ③ Security: 802.1x (port-based, MD5/TLS/TTLS/PEAP encryption), RADIUS
- Management: SNMP v1/v2c/v3, WEB, Telnet, standard MIB, private MIB
- ③ NEMA TS2 for traffic control
- 3 EN50121-4 approval for railway trackside deployment
- ③ Wide operating temperature range of -40 ~ 75°C (EKI-7708E-4FI)
- ③ 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.

(System)

Specifications

Interface

③ **I/O Port** 4 x 10/100BASE-T/TX RJ-45

3 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)
 Power Connector 6-pin screw

Terminal Block (including relay)

Physical

3 Enclosure Metal Shell
 3 Protection Class IP 30
 3 Installation DIN-Rail
 3 Dimensions (W x H x D) 74x152x105 mm (2.91" x 5.98" x 4.13")

LED Display

System LED
 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

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

Humidity 10 ~ 95% (non-

condensing)

Power Consumption 12.1W @ 48V_{DC}

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

Fault Output 1 Relay Output

Power

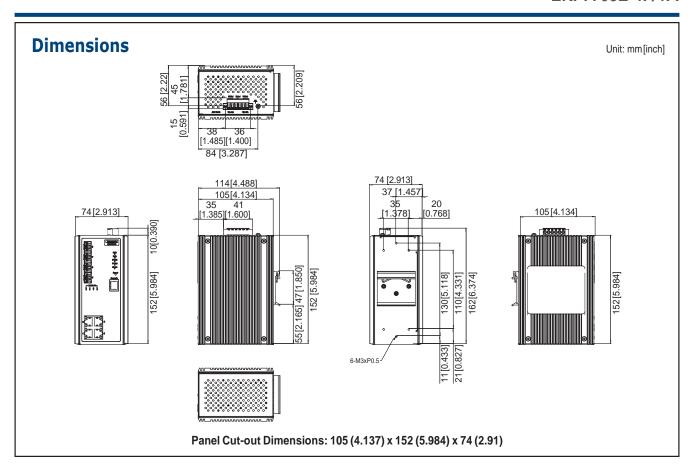
EN50121-4* Certification 3 Shock IEC 60068-2-27 3 EMI CE, FCC Class A 3 Freefall IEC 60068-2-32 **3 EMC** EN 61000-4-2 3 Vibration IEC 60068-2-6 ΕN 3 Traffic control NEMA TS2* 61000-4-*= Compliant 3 ΕN L2 Features 61000-4-3 4 L2 MAC Address 8K ΕN 3 Jumbo Frame 9216 Bytes 61000-4-3 **VLAN Group** 256 (VLAN ID 1 ~ 4094) 5 3 VLAN Arrange Port based VLAN, Q-in-Q (VLAN ΕN Stacking), GVRP 61000-4-3 Port Mirroring Per port, Multi-source port, 6 3 IP Multicast IGMP ΕN Snooping v1/v2/v3, MLD 61000-4-8 Snooping, IGMP Immediate leave ΕN 3 Storm Control Broadcast, Multicast, Unknown 61000-6unicast 2 3 Redundancy IEEE 802.1D-STP, IEEE 802.1s-ΕN MSTP, IEEE 61000-802.1w-RSTP, X-Ring Pro, with ultra high-speed 6-4 recovery time less than 20ms

ADVANTECH

Industrial Ethernet Solutions

All product specifications are subject to change without notice.

Last updated: 29-Sep-2020



QoS

3 Priority Queue WRR (Weighted Round Robin), SP

(Strict Scheduling

Scheduling Priority) Hybrid Priority

IEEE 802.1p Based Class of Service CoS, IPTOS, DSCPbased CoS

3 Rate Limiting Ingress Rate limit, Egress

Rate limit

Link Aggregation IEEE 802.3ad

Dynamic Port Trunking, Static Port

Trunking

Ordering Information

EKI-7708E-4FI-AE 4FE+4GSFPPort

Managed Ethernet Switch w/Wide

Temp

EKI-7708E-4F-AE 4FE + 4G SFP Port

Managed Ethernet Switch

Security

3

3 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

3 **DHCP** Client, Server, Option66/67/82 SNMP v1/v2c/v3, WEB, Telnet, 3 Access

RMON, Standard MIB, Private MIB

3 Security access SSH2.0, SSL

Software upgrade TFTP, HTTP, Dual Image 3

NTPSNTP client 3

Industrial Communication Products Ltd

Tel: +44(0) 203 086 9569 Email: sales@industrialcomms.com

Web: www.industrialcomms.com