EKI-7708E-4FP EKI-7708E-4FPI

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



Features

- 4 x IEEE 802.3 af/at PoE 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 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
- Wide operating temperature range of -40 ~ 75°C (EKI-7708E-4FPI)
- Dual 48 V_{DC} power input and 1 x relay output



Introduction

The EKI-7708E-4FP/4FPI provide 4 fast Ethernet IEEE 802.3 af/at PoE ports and 4 SFP (mini-GBIC) ports. They can provide up to 30 W per port to fulfill high-power-consumption power device requirements. They are embedded with Advantech's IXM function, which can benefit users with fast deployment and can save considerably on engineering time and costs. The EKI-7708E series also support NMS to help IT managers with networking maintenance and failure prevention. Finally, they are equipped with X-Ring Pro, which can achieve ultra-high-speed recovery times of <20 ms, thus ensuring network stability. The EKI-7708E-4FPI in particular also features a wide operating temperature range of -40 ~ 75°C and NEMA TS2 rating, making it ideal for use in traffic applications. Finally, the EKI-7708E-4FP/4FPI meet the EN50121-4 European railway standard requirements for emissions and railway platform and trackside deployment.

Specifications

n	t	e	r	fa	C	e

I/O Port 4 x 10/100BASE-T/TX RJ-45 4 x SFP (mini-GBIC) port IEEE 802.3 for 10BASET Standards IEEE 802.3u for 100BaseT(X)/FX IEEE 802.z for 1000BaseX IEEE 8023x for Flow Control Console port RS-232 (RJ45) Power Connector 6-pin screw Terminal Block (including relay)

Physical

Enclosure Metal Shell Protection Class IP 30 Installation DIN-Rail 74 x 152 x 105 mm (2.91" x 5.98" x 4.13") Dimensions (W x H x D)

LED Display

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

Environment

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

 Storage Temperature -40 ~ 85°C

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

Power

 Power Consumption 12.1W @ 48V_{DC} (System) Power Input 48 V_{DC} (46 to 57 V_{DC}),

53 -57 V_{DC} is recommended for 802.3at,

redundant dual power input

 Power Budget 120W Fault Output 1 Relay Output

Certification

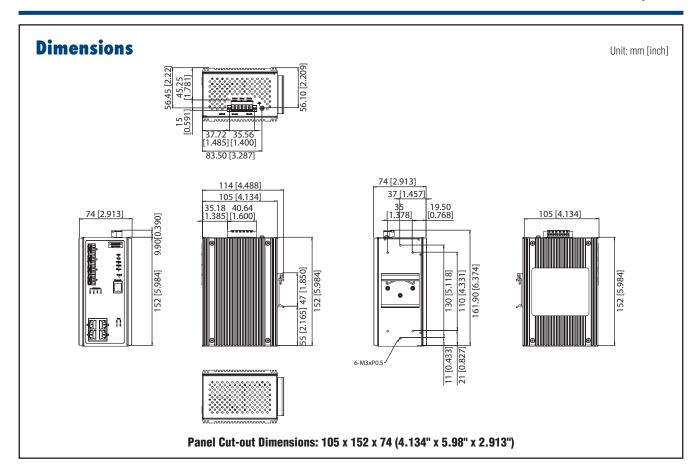
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CE, FCC Class A EN 61000-4-2 EMC EN 61000-4-3 EN 61000-4-4 EN 61000-4-5 EN 61000-4-6 EN 61000-4-8 EN 61000-6-2 EN 61000-6-4 EN50121-4 Shock IEC 60068-2-27 Freefall IEC 60068-2-32 Vibration IEC 60068-2-6

 Traffic control *= Compliant

Patent http://www.advantech.com/legal/patent

NEMA TS2



L2 Features

L2 MAC Address 8KJumbo Frame 9216 Bytes

■ VLAN Group 256 (VLAN ID 1 ~ 4094)

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

 Port Mirroring
 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

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

Security access SSH2.0, SSL

• **Software upgrade** TFTP, HTTP, Dual Image

NTP SNTP client

Ordering Information

• EKI-7708E-4FPI-AE 4FE + 4G SFP Port Managed PoE Ethernet Switch w/ Wide Temp

■ **EKI-7708E-4FP-AE** 4FE + 4G SFP Port Managed PoE Ethernet Switch

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

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