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.

Dowor

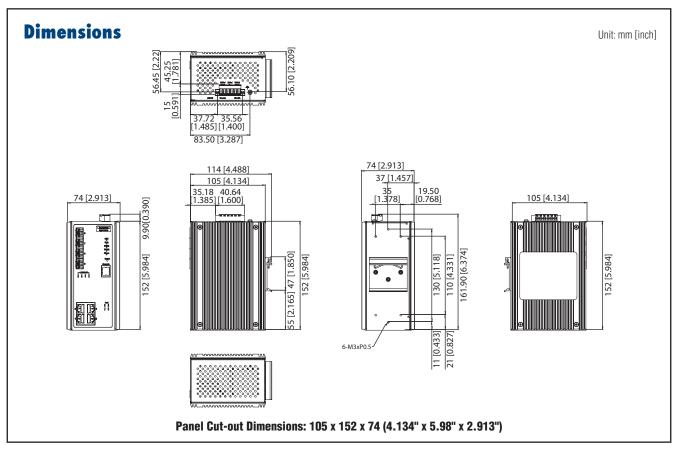
IPv6 5tor CEFCC Rots

Specifications

Interface		Power	
 I/O Port 	4 x 10/100BASE-T/TX RJ-45 4 x SFP (mini-GBIC) port	 Power Consumption Power Input	12.1W @ 48V _{DC} (System) 48 V _{DC} (46 to 57 V _{DC}),
 Standards 	IEEE 802,3 for 10BASET IEEE 802.3u for 100BaseT(X)/FX IEEE 802.z for 1000BaseX IEEE 8023x for Flow Control	 Power Budget Fault Output 	53 -57 V _{DC} is recommended for 802.3at, redundant dual power input 120W 1 Relay Output
Console portPower Connector	RS-232 (RJ45) 6-pin screw Terminal Block (including relay)	Certification - EMI	CE. FCC Class A
Physical • Enclosure • Protection Class • Installation	Metal Shell IP 30 DIN-Rail	- EMC	EN 61000-4-2 EN 61000-4-3 EN 61000-4-4 EN 61000-4-5 EN 61000-4-6
 Dimensions (W x H x D) LED Display System LED Port LED 	74 x 152 x 105 mm (2.91" x 5.98" x 4.13") PWR1, PWR2, SYS, Alarm and R.M. Link / Speed / Activity	- Shock	EN 61000-4-8 EN 61000-6-2 EN 61000-6-4 EN50121-4 IEC 60068-2-27
Environment Operating Temperature 	-40 ~ 75°C (-40 ~ 167°F) (7708E-4FPI) -10 ~ 60°C (-40 ~ 140°F) (7708E-4FP)	 Freefall Vibration Traffic control *= Compliant 	IEC 60068-2-32 IEC 60068-2-6 NEMA TS2
 Storage Temperature Ambient Relative Humidity Humidity 	-40 ~ 85°C 10 ~ 95% (non-condensing) 10 ~ 95% (non-condensing)	 Patent 	http://www.advantech.com/legal/patent

AD\ANTECH **Industrial Ethernet Solutions**

EKI-7708E-4FP/4FPI



L2 Features

- L2 MAC Address
- Jumbo Frame
- VLAN Group
- VLAN Arrange
- Port Mirroring
- IP Multicast
- Storm Control
- Redundancy

QoS

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

8K

9216 Bytes

256 (VLAN ID 1 ~ 4094)

Per port, Multi-source port,

recovery time less than 20ms

IGMP Snooping v1/v2/v3, MLD Snooping, IGMP Immediate leave

Broadcast, Multicast, Unknown unicast IEEE 802.1D-STP, IEEE 802.1s-MSTP, IEEE

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

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

- 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/TLS/PEAP
 - Encryption), TACACS+

Management

- DHCP
- Access
- 100000
- Security access
- Software upgrade
- NTP

Ordering Information

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

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

Client, Server, Option66/67/82

TFTP, HTTP, Dual Image

Private MIB

SSH2.0, SSL

SNTP client

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

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