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-4FPI meet the EN50121-4 European railway standard requirements for emissions and railway platform and trackside deployment.

Certification

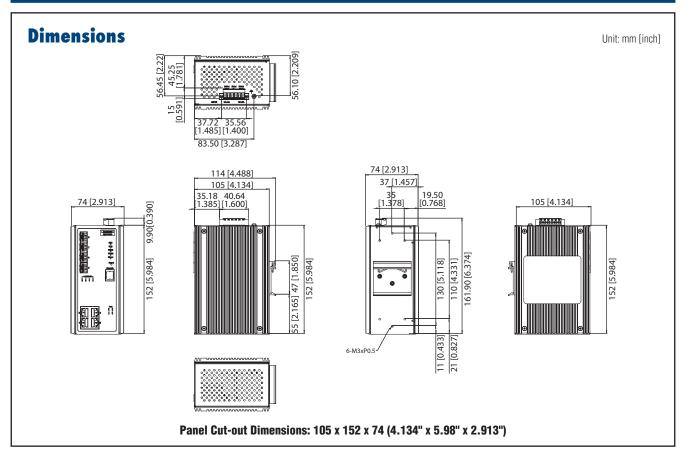
Specifications

Interface

Interface		Gertification	
 I/O Port 	4 x 10/100BASE-T/TX RJ-45	= EMI = EMC	CE, FCC Class A EN 61000-4-2
Console portPower Connector	4 x SFP (mini-GBIC) port RS-232 (RJ45) 6-pin screw Terminal Block (including relay)	- 100	EN 61000-4-3 EN 61000-4-4 EN 61000-4-5
Physical - Enclosure - Protection Class - Installation - Dimensions (W x H x D)	Metal Shell IP 30 DIN-Rail 74 x 152 x 105 mm (2.91" x 5.98" x 4.13")	 Shock Freefall Vibration 	EN 61000-4-5 EN 61000-4-6 EN 61000-4-8 EN50121-4 IEC 60068-2-27 IEC 60068-2-32 IEC 60068-2-6 NEMA TS2
LED Display System LED Port LED 	PWR1, PWR2, SYS, Alarm and R.M. Link / Speed / Activity	 Traffic control *= Compliant Patent 	http://www.advantech.com/legal/patent
Environment Operating Temperature 	-40 ~ 75°C (-40 ~ 167°F) (7708E-4FPI) -10 ~ 60°C (-40 ~ 140°F) (7708E-4FP)	L2 Features L2 MAC Address Jumbo Frame	8K 9216 Bytes
 Storage Temperature Ambient Relative Humidity Humidity 	-40 ~ 85°C 10 ~ 95% (non-condensing) 10 ~ 95% (non-condensing)	 VLAN Group VLAN Arrange Port Mirroring IP Multicast 	256 (VLAN ID 1 ~ 4094) Port based VLAN, Q-in-Q (VLAN Stacking), GVRP Per port, Multi-source port, IGMP Snooping v1/v2/v3, MLD
Power Power Consumption	12.1W @ 48Vnc (System)	 Storm Control 	Snooping, IGMP Immediate leave Broadcast, Multicast, Unknown unicast
 Power Input 	$48 V_{DC}$ (46 to 57 V _{DC}), 53 -57 V _{DC} is recommended for 802.3at, redundant dual power input	 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
 Power Budget Fault Output 	120W 1 Relay Output		

ADVANTECH Industrial Ethernet Solutions
All product specifications are subject to change without notice.

EKI-7708E-4FP/4FPI



QoS

- Priority Queue WRR (Weighted Round Robin), SP (Strict Scheduling Scheduling Priority) Hybrid Priority IEEE 802.1p Based CoS, IP TOS, DSCP based CoS
- Class of Service Ingress Rate limit, Egress Rate limit
- Rate Limiting
- Link Aggregation

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	

Trunking

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

Client, Server, Option66/67/82

Management

Security access

Software upgrade

- DHCP
- Access

SNMP v1/v2c/v3, WEB, Telnet, RMON, Standard MIB, Private MIB SSH2.0, SSL TFTP, HTTP, Dual Image SNTP client

IEEE 802.3ad Dynamic Port Trunking, Static Port

NTP

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