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

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

INDUSTRIA



IPV6 5 CEFCC Rohs

Features

- ③ 4 x IEEE 802.3 af/at PoE fast Ethernet ports + 4 x SFP ports
- $\ensuremath{\textcircled{}}$ $\ensuremath{\textcircled{}}$ 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 enables fast deployment
- ③ Security: 802.1x (port-based, MD5/TLS/TTLS/PEAP encryption), RADIUS
- ③ 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-4FPI)
- 3 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

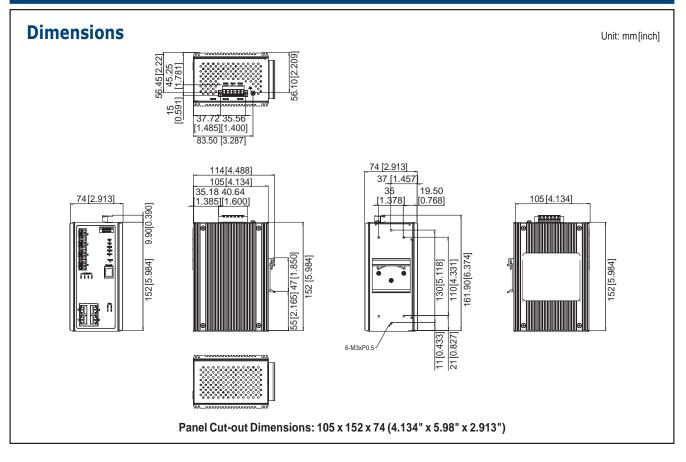
Interface			Power			
3	I/O Port 4 x 10/100BASE-T/TX RJ-45 4 x SFP (mini-GBIC) port IEEE 802,3 for 10BASET IEEE 802.3u for 100BaseT(X)/FX		③ (System)	Power Consumption 12.1 W @ $48V_{DC}$		
③ Standards			(Jysien) 3			48 V _{DC} (46 to 57 V _{DC}), nded for 802.3at, er input
	IEEE 802.z for 1000B IEEE 8023x for Flow		3	Power B	•	120W
3	Console port	RS-232 (RJ45)	3	Fault Ou	tput	1 Relay Output
3	Power Connector	6-pin screw	Certification			
Terminal Block (including relay)			3	EMI CE, FCC (Class A	
Physical			3 EMC	EN 61000-4-2		
3	Enclosure	Metal Shell		EN 61000-4-3		
3	Protection Class	IP 30		EN 61000-4-4 EN 61000-4-5		
3	Installation	DIN-Rail		EN 61000-4-6		
③ Dimensions (W x H x D)	74 x 152 x 105 mm (2	2.91"x5.98"x4.13")		EN 61000-4-8		
LED Display				EN 61000-6-2 EN 61000-6-4		
3	System LED	PWR1, PWR2,		EN 61000-6-4 EN50121-4		
SYS, Alarm and R.M.			③ Shock	IEC 60068-2-27		
3	PortLED	Link / Speed /	3	Freefall	IEC 60068-2	2-32
Activity			3	Vibration	IEC 60068	3-2-6
Environment			3	Traffic control	NEMA TS2	2
3	Operating Temperating	ature -40~	*= Compliant			
75°C (-40~167°F) (7708E-4FPI)		3	Patent		
	-10~60°C (-40~140	, (,	http://www.advantech	.com/legal/patent		
③ 85°C	Storage Temperate	ure -40 ~				
3	Ambient Relative H	lumidity 10 ~				
95% (non-condensing)		(
③ condensing)	Humidity	10 ~ 95% (non-				



All product specifications are subject to change without notice.

Last updated: 28-Sep-2020

EKI-7708E-4FP/4FPI



L2 Features

	L2 MAC Address	01/	
3		8K	
3	Jumbo Frame 9216 By	tes	
3	VLAN Group 256 (VL	AN ID 1 ~ 4094)	
3	VLAN Arrange Portbase	d VLAN. Q-in-Q (VLAN	
Stacking), GVRP	J	, , , , , , , , , , , , , , , , , , , ,	
3	Port Mirroring Per port,	Multi-source port,	
3	IP Multicast IGMP		
0	Snooping v1/v2/v3, MLD		
	Snooping, IGMP Immediate	leave	
3	Storm Control Broadca		
unicast		ist, Multicast, Officiowi	
3	Redundancy IEEE80		
802.1s-MSTP, IEEE	Redundancy IEEE 80.	Z.ID-SIP,IEEE	
002.15-1031F,ILLL	802.1w-RSTP, X-Ring Pro, with ultra high-speed recovery time less than 20ms		
QoS			
3	Priority Queue WRR (We	eighted Round Robin) SP	
(Strict Scheduling	Thomy quede mar(m		
Scheduling	Priority) Hybrid Priority		
•	Class of Service	IFFF 002 1n Deced	
③ CoS, IPTOS, DSCPbased		IEEE 802.1p Based	
, ,			
3	Rate Limiting Ingress	Rate limit, Egress	
Ratelimit			
3	Link Aggregation	IEEE 802.3ad	

(3) Link Aggregation IEEE 802.3ad Dynamic Port Trunking, Static Port Trunking

Management

3	DHCP	Client, S	Client, Server, Option66/67/82		
3	Access	SNMP v1/v2c/v3, WEB, Telnet,			
	RMON, Stand	ard MIB, Priv	vate MIB		
3	Security acc	ess	SSH2.0, SSL		
3	Software up	ograde	TFTP, HTTP, Dual		
Image		•			
3	NTPSNTP c	lient			

Ordering Information

3	EKI-7708E-4FPI-AE	4FE+4GSFPPort
Managed PoE Ethernet St	witch w/	
	Wide Temp	
3	EKI-7708E-4FP-AE	4FE+4GSFPPort
Managed PoE Ethernet St	witch	

Security

3	Port Security Static, Dynamic IP Source Guard, ARP Spoofing
	Prevention, Access Control List, DHCP Snooping
3	Authentication 802.1x (Port-Based, MD5/TLS/TTLS/PEAP

Encryption), TACACS+

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

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