



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



Humidity

10 ~ 95% (non-

Features

- ③ 4 x IEEE 802.3 af/at PoE 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)</p>
- ③ IXM function enables 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-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.

Power

Specifications

Interface

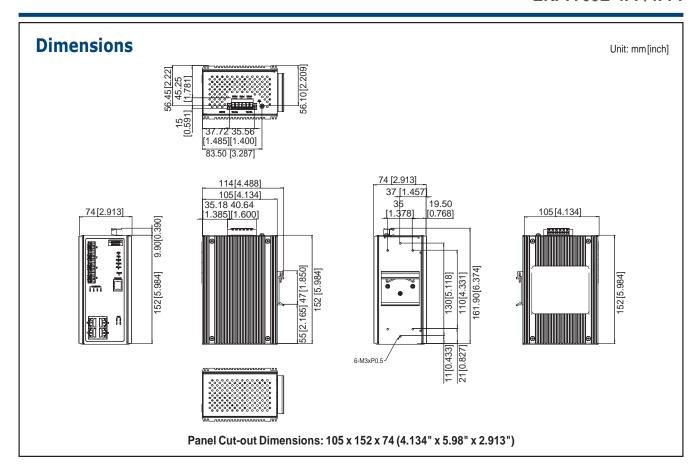
3

condensing)

Interrace				Bower Consumption 12 4W @ 40V				
3	I/O Port 4 x 10/100BASE-T/TX RJ-45			③ (System)	③ Power Consumption 12.1W @ 48V _{DC} (System)			
③ Standards	4 x SFP (mini-GBIC) port IEEE 802,3 for 10BASET IEEE 802.3u for 100BaseT(X)/FX IEEE 802.z for 1000BaseX IEEE 8023x for Flow Control Console port RS-232 (RJ45)		ΣX	(<i>System)</i>			48 V _{DC} (46 to 57 V _{DC}), ended for 802.3at,	
3			(RJ45)	③ ③		Budget	120W 1 Relay Output	
③ Terminal Block (including relay)	Power Connector	6-pin scre	W	Certification 3	EMI CE, FCC	Class A		
Physical				3 EMC	EN 61000-4-2			
3 3 3	Enclosure Protection Class Installation	Metal Sh IP 30 DIN-Rail			EN 61000-4-3 EN 61000-4-4 EN 61000-4-5			
③ Dimensions (W x H x D)	74x152x105mm(2.91"x5.98"x4.13")				EN 61000-4-6 EN 61000-4-8 EN 61000-6-2			
LED Display					EN 61000-6-4			
③ SYS, Alarm and R.M.	System LED	PWR1, PWR2,			EN50121-4			
3 Activity	PortLED	Link/Sp	eed/	3 Shock33	IEC 60068-2-27 Freefall Vibration	IEC 60068		
Environment				3	Traffic contro	I NEMATS	32	
③ 75°C(-40~167°F)(7708E-4FP	Operating Temperature -40 ~		-40~	*= Compliant 3 Patent				
	-10~60°C (-40~140°F) (7708E-4FP)			http://www.advantech.com/legal/patent				
③ 85°C	Storage Temperate	ure	-40 ~					
③ 95% (non-condensing)	Ambient Relative I	Humidity	10 ~					

All product specifications are subject to change without notice.

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L2 Features

L2 MAC Address 8K
 Jumbo Frame 9216 Bytes
 VLAN Group 256 (VLAN ID 1 ~ 4094)
 VLAN Arrange Port based VLAN, Q-in-Q (VLAN Stacking), GVRP

Port Mirroring Per port, Multi-source port,

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

Storm Control Broadcast, Multicast, Unknown

unicast

3 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

3 Class of Service IEEE 802.1p Based

CoS, IPTOS, DSCPbased CoS

3 Rate Limiting Ingress Rate limit, Egress

Rate limit

③ Link Aggregation IEEE 802.3ad

Dynamic Port Trunking, Static Port Trunking

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

Management

3

3

3

Image

DHCP CI

Client, Server, Option66/67/82 SNMP v1/v2c/v3, WEB, Telnet,

Access SNMP v1/v2c/v3, NMON, Standard MIB, Private MIB

Security access SSH2.0, SSL
Software upgrade TFTP, HTTP, Dual

3 NTPSNTP client

Ordering Information

3 **EKI-7708E-4FPI-AE** 4FE+4GSFPPort

Managed PoE Ethernet Switch w/
Wide Temp

③ **EKI-7708E-4FP-AE** 4FE+4G SFP Port

Managed PoE Ethernet Switch

Encryption), TACACS+

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

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