

EKI-7708E-4F

EKI-7708E-4FI

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



Features

- ③ 4 x 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)
- ③ IXM function for 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-4FI)
- ③ Dual 12 ~ 48 V_{DC} power input and 1 x relay output

Introduction

The EKI-7708E-4F and EKI-7708E-4FI provide users with abundant port options for connecting to various device types, with 4 fast Ethernet ports and 4 SFP (mini-GBIC) ports. These switches are embedded with Advantech's IXM function, which can benefit users with fast deployment while offering considerable savings on engineering time and costs. The series also support NMS to help IT managers with networking maintenance and failure prevention. Finally, these switches are equipped with X-Ring Pro, which can achieve ultra-high-speed recovery times of <20 ms, thus ensuring network stability. The EKI-7708E-4FI features a wide operating temperature range of -40 ~ 75°C and a NEMA TS2 rating, making it ideal for use in traffic applications. Both switches in this series meet the EN50121-4 European railway standard requirements for emissions and railway platform and trackside deployment.

Specifications

Interface

③	I/O Port	4 x 10/100BASE-T/TX RJ-45 4 x SFP (mini-GBIC) port
③	Standards	IEEE 802.3 for IEEE 802.3u for 100BaseT(X)/FX IEEE 802.3z for 1000BaseX IEEE 802.3x for Flow Control
③	Console port	RS-232 (RJ45)
③	Power Connector	6-pin screw
		Terminal Block (including relay)

- ③ (System)
- ③ dual power input
- ③

Power Consumption 12.1W @ 48V_{DC}

Power Input 12 ~ 48V_{DC}, redundant

Fault Output 1 Relay Output

Physical

③	Enclosure	Metal Shell
③	Protection Class	IP 30
③	Installation	DIN-Rail
③	Dimensions (W x H x D)	74 x 152 x 105 mm (2.91" x 5.98" x 4.13")

LED Display

③	System LED	PWR1, PWR2, SYS, Alarm and R.M.
③	Port LED	Link / Speed / Activity

Environment

③	Operating Temperature	-40 ~ 75°C (-40 ~ 167°F) (7708E-4FI)
		-10 ~ 60°C (-40 ~ 140°F) (7708E-4F)
③	Storage Temperature	-40 ~ 85°C
③	Ambient Relative Humidity	10 ~ 95% (non-condensing)
③	Humidity	10 ~ 95% (non- condensing)

Power

Certification

③	EMI CE, FCC Class A
③ EMC	EN 61000-4-2
	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

③ Shock

③	EN50121-4*
③	IEC 60068-2-27
③	Freefall IEC 60068-2-32
③	Vibration IEC 60068-2-6
③	Traffic control NEMA TS2*

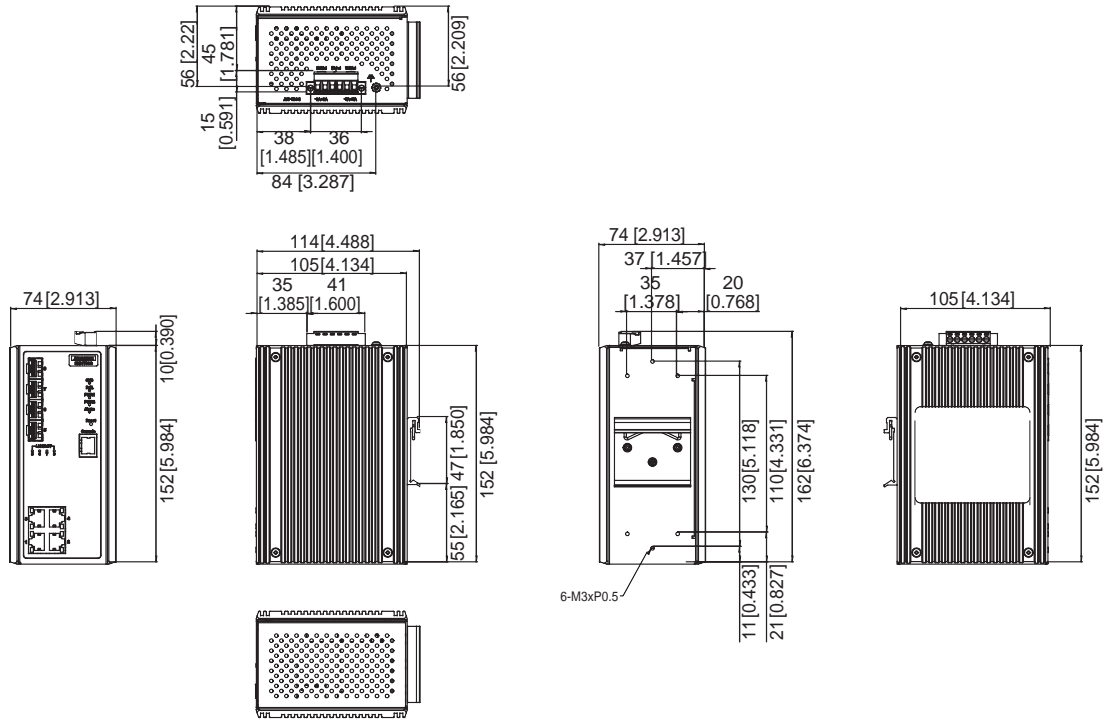
*= Compliant

L2 Features

③	L2 MAC Address 8K
③	Jumbo Frame 9216 Bytes
③	VLAN Group 256 (VLAN ID 1 ~ 4094)
③	VLAN Arrange Port based VLAN, Q-in-Q (VLAN Stacking), GVRP
③	Port Mirroring Per port, Multi-source port,
③	IP Multicast IGMP Snooping v1/v2/v3, MLD Snooping, IGMP Immediate leave
③	Storm Control Broadcast, Multicast, Unknown unicast
③	Redundancy IEEE 802.1D-STP, IEEE 802.1s-802.1w-RSTP, X-Ring Pro, with ultra high-speed recovery time less than 20ms
③	MSTP, IEEE

Dimensions

Unit: mm[inch]



Panel Cut-out Dimensions: 105 (4.137) x 152 (5.984) x 74 (2.91)

QoS

- ③ **Scheduling** (Strict Scheduling) **Priority Queue** WRR (Weighted Round Robin), SP (Priority) Hybrid Priority
- ③ **CoS, IP TOS, DSCP based CoS** **Class of Service** IEEE 802.1p Based
- ③ **Rate limit** **Rate Limiting** Ingress Rate limit, Egress
- ③ **Dynamic Port Trunking, Static Port Trunking** **Link Aggregation** IEEE 802.3ad

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+

Management

- ③ **DHCP** Client, Server, Option66/67/82
- ③ **Access** SNMP v1/v2c/v3, WEB, Telnet, RMON, Standard MIB, Private MIB
- ③ **Security access** SSH2.0, SSL
- ③ **Software upgrade** TFTP, HTTP, Dual Image
- ③ **NTPSntp client**

Ordering Information

- ③ **EKI-7708E-4FI-AE** 4FE + 4G SFP Port
Managed Ethernet Switch w/Wide Temp
- ③ **EKI-7708E-4F-AE** 4FE + 4G SFP Port
Managed Ethernet Switch

