

EKI-7712E-4F EKI-7712E-4FI

8FE+4G SFP Port Managed **Redundant Industrial Switch**



Features

- 8 x Fast Ethernet ports + 4 x SFP ports
- Redundancy: X-Ring Pro (ultra-high-speed recovery time, <20 ms), RSTP/STP (802.1w/1D)
- IXM function for fast deployment
- Security Pack with 802.1X, ACL, RADIUS, TACACS+, MAB Authentication, SNMPv3, HTTPS, SSH, and SFTP
- Management: SNMP v1/v2c/v3, WEB, Telnet, standard MIB, private MIB
- Supports NMS for easy and visualized to monitor and manage network remotely
- Dual 12 ~ 48 V_{DC} power input and 1 x relay output

Introduction

The EKI-7712E-4F and EKI-7712E-4FI provide abundant port options for connecting to various different device types, with 8 fast Ethernet ports and 4 SFP (mini-GBIC) ports. These units are embedded with Advantech's IXM function for fast deployment, which can dramatically save on engineering time and costs. The EKI-7712E series also support NMS to help IT managers with networking maintenance and failure prevention. Finally, the series are equipped with X-Ring Pro, which can achieve ultra-high-speed recovery times of <20 ms, thus ensuring network stability. The EKI-7712G-4FI features a wide operating temperature of -40 to 75°C and NEMA TS2 rating, making it ideal for use in traffic applications. Both switches comply with EN50121-4 European railway standard requirements for emissions and railway platform and trackside deployment.

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Specifications

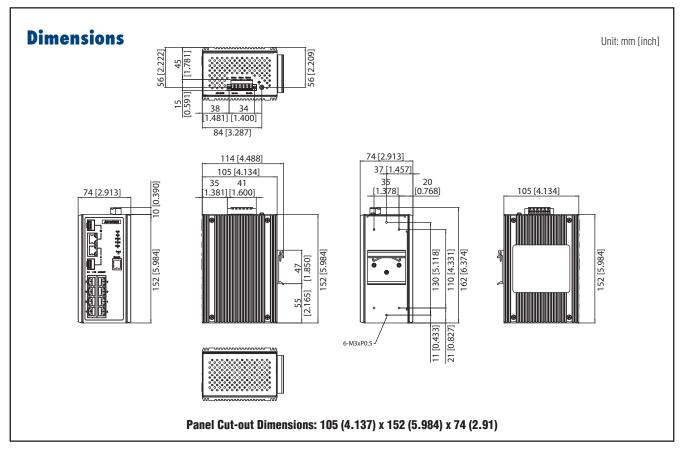
Interfaces / Communications		Power	
■ I/O Port	8 x 10/100BASE-T/TX RJ-45 4 x SFP (mini-GBIC) port Auto-Negotiation, Full/Half Duplex Mode	 Power Consumption Power Input Fault Output 	12.1W @ 48V _{DC} (System) 12 ~ 48 V _{DC} , redundant dual power input 1 Relay Output
 Standards Console port Power Connector 	Auto MDI/MDI-X Connection IEEE 802.3 for 10BaseT IEEE 802.3u for 100BaseT(X)/FX IEEE 802.3z for 1000BaseSX/LX/LHX/ZX IEEE 802.3x for Flow Control RS-232 (RJ45) 6-pin screw Terminal Block (including relay)	Certification - Safety - EMI - EMS	UL 61010-2-201, EN LVD 62368 CE, CISPR 32, FCC Part 15B Class A EN 61000-4-2 EN 61000-4-3 EN 61000-4-4
Physical Enclosure Protection Class Installation Dimensions (W x H x D)	Metal Shell IP 40 DIN-Rail, Wall-mount 74 x 152 x 105 mm (2.91" x 5.98" x 4.13")	 EMC Shock Freefall 	EN 61000-4-5 EN 61000-4-6 EN 61000-4-8 EN 61000-6-2 EN 61000-6-4 IEC 60068-2-27 IEC 60068-2-32
LED Indicators • System LED • Port LED	PWR1, PWR2, SYS, Alarm and R.M. Link / Speed / Activity	 Vibration Traffic control Railway Trackside 	IEC 60068-2-6 NEMA TS-2 EN 50121-4
Environment • Operating Temperature • Storage Temperature • Ambient Relative Humidity • Overload Current Protection • Reverse Polarity Protection • MTBF	-40 ~ 75°C (-40 ~ 167°F) (EKI-7712E-4FI) -10 ~ 60°C (-40 ~ 140°F) (EKI-7712E-4F) -40 ~ 85°C (-40 ~ 185°F) 5 ~ 95% (non-condensing) Present Present 1,377,597 hours	Switch Properties Switch Capacity Transmission Rate MAC Table Size Jumbo Frame Packet Buffer Size Max. IGMP Group Max. VLAN Group	9.6Gbps 7.14Mpps 8K 1,0240 Bytes 4.1Mb 256 256 (VLAN ID 1 ~ 4094)

AD\ANTECH Industrial Ethernet Solutions All product specifications are subject to change without notice.



Zapraszamy do kontaktu! Więcej informacji: www.kreski.pl

EKI-7712E-4F/4FI



L2 Features

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 VLAN Arrange 	802.1Q Tag-based VLAN, 802.1ad QinQ VLAN Stacking	 Port Security
 Port Mirroring 	1 to 1, N to 1	
	Max. Mirror Session: 4	802.1X
RSPAN	Remote Switched Port Analysis	
 GARP 	GVRP, GMRP	MAB
IP Multicast	IGMP Snooping v1/v2/v3, MLD	 Authentication
	Snooping, IGMP Immediate leave	 IP Security
 Storm Control 	Broadcast, Multicast, Unknown unicast	
LLDP	802.1ab LLDP, LLDP-MED	ACL
Industrial Protocol	Modbus/TCP	
 Redundancy 	IEEE 802.1D-STP, IEEE 802.1s-MSTP, IEEE	Management
	802.1w-RSTP, X-Ring Pro, with ultra high-speed	•
	recovery time less than 20ms, ERPS(G.8032)	 DHCP
QoS		 Access
 Priority Queue 	WRR (Weighted Round Robin), SP (Strict Scheduling	
•		 Security access
Scheduling	Priority) Hybrid Priority, Max. Priority Queues: 8	 Software upgrade
 Class of Service 	IEEE 802.1p Based CoS, IP TOS, DSCP based CoS	 NTP
 Rate Limiting 	Ingress Rate limit, Egress Rate limit	- 1411
Link Aggregation	IEEE 802 3ad Dynamic Port Trunking Static Port	

Link Aggregation IEEE 802.3ad Dynamic Port Trunking, Static Port Trunking

Security

	Static/Dynamic MAC, Max. Learning Limit, MAC Violation Notice
	Port-based/MAC-based Authentication (MD5/PEAP/TLS/TTLS Encryption)
	MAC Authentication Bypass
n	RADIUS, TACAS+
	IP Source Guard, DHCP Snooping, ARP Spoofing Prevention
	Access Control List (IP-ACL, MAC-ACL) Max. ACL Entries: 128
	Client, Server, Option66/67/82, DHCP Relay

anagement

- DHCP
- Access
- MIB-II, Private MIB, Ethernet-Like MIB, RMON MIB (Group 1, 2, 3, 9) SSH2.0, SSL TFTP, SFTP, HTTP, Dual Image

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

SNTP client

- **Ordering Information** EKI-7712E-4FI-AE
 - 8FE + 4SFP Port Managed Ethernet Switch w/Wide Temp
- EKI-7712E-4F-AE 8FE + 4SFP Port Managed Ethernet Switch