# EKI-7720E-4F EKI-7720E-4FI

## **16FE+4G SFP Port Managed Redundant Industrial Switch**



### Redundancy: X-Ring Pro (ultra-high-speed recovery time, <20 ms), RSTP/STP</li>

**Features** 

(802.1w/1D)

• 16 x Fast Ethernet ports + 4 x SFP ports

- 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<sub>DC</sub> power input and 1 x relay output

## Introduction

The EKI-7720E-4F and EKI-7720E-4FI provide users with abundant port options to connect to a range of different device types with 16 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 and can dramatically save 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-7720E-4FI also features a wide operating temperature of -40 ~ 75°C.

## **Specifications**

#### Interferen / Communications

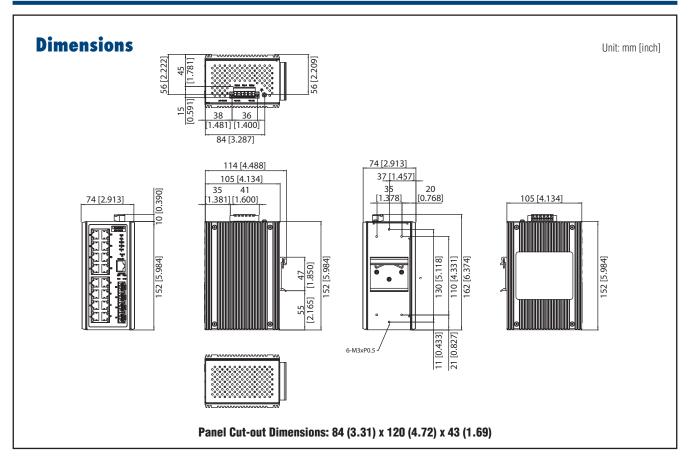
5	FUWCI	
16 x 10/100BASE-T/TX RJ-45 4 x SFP (mini-GBIC) port Auto-Negotiation, Full/Half Duplex Mode	<ul> <li>Power Consumption</li> <li>Power Input</li> <li>Fault Output</li> </ul>	$\begin{array}{l} 14.5Watts@48V_{\text{DC}}, \ 14Watts@12V_{\text{DC}}\\ 12 \sim 48 \ V_{\text{DC}}, \ redundant \ dual \ power \ input\\ 1 \ Relay \ Output \end{array}$
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
Metal Shell IP 30 DIN-Rail, Wall-mount 74 x 152 x 105 mm (2.91" x 5.98" x 4.13")	<ul> <li>EMC</li> <li>Shock</li> <li>Freefall</li> </ul>	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
PWR1, PWR2, SYS, Alarm and R.M. Link / Speed / Activity	<ul> <li>Vibration</li> <li>Traffic control</li> <li>Railway Trackside</li> <li>Security</li> </ul>	IEC 60068-2-6 NEMA TS-2 EN 50121-4 IEC 62443-4-2
-40 ~ 75°C (-40 ~ 167°F) (EKI-7720E-4FI) -10 ~ 60°C (-40 ~ 140°F) (EKI-7720E-4F) -40 ~ 85°C (-40 ~ 185°F) 5 ~ 95% (non-condensing) Present Present 1,469,341 hours	Switch Properties Switching Capacity Transmission Rate MAC Table Size Jumbo Frame Packet Buffer Size Max. IGMP Group Max. VLAN Groun	11.2Gbps 8.33Mpps 8K 1,0240 Bytes 4.1Mb 256 256 (VLAN ID 1 ~ 4094)
	4 x SFP (mini-GBIC) port Auto-Negotiation, Full/Half Duplex Mode 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) Metal Shell IP 30 DIN-Rail, Wall-mount 74 x 152 x 105 mm (2.91" x 5.98" x 4.13") PWR1, PWR2, SYS, Alarm and R.M. Link / Speed / Activity -40 ~ 75°C (-40 ~ 167°F) (EKI-7720E-4FI) -10 ~ 60°C (-40 ~ 140°F) (EKI-7720E-4FF) -40 ~ 85°C (-40 ~ 185°F) 5 ~ 95% (non-condensing) Present Present	<ul> <li>Solution</li> <li>16 x 10/100BASE-T/TX RJ-45</li> <li>4 x SFP (mini-GBIC) port</li> <li>Auto-Negotiation, Full/Half Duplex Mode</li> <li>Auto MDI/MDI-X Connection</li> <li>IEEE 802.3 for 100BaseT</li> <li>IEEE 802.3 tor 100BaseT(X)/FX</li> <li>IEEE 802.3 tor 100BaseSX/LX/LHX/ZX</li> <li>IEEE 802.3 x for Flow Control</li> <li>RS-232 (RJ45)</li> <li>6-pin screw Terminal Block (including relay)</li> <li>Metal Shell</li> <li>IP 30</li> <li>DIN-Rail, Wall-mount</li> <li>74 x 152 x 105 mm (2.91" x 5.98" x 4.13")</li> <li>PWR1, PWR2, SYS, Alarm and R.M.</li> <li>Link / Speed / Activity</li> <li>-40 ~ 75°C (-40 ~ 167°F) (EKI-7720E-4FI)</li> <li>-10 ~ 60°C (-40 ~ 167°F) (EKI-7720E-4FI)</li> <li>-40 ~ 85°C (-40 ~ 165°F)</li> <li>5 ~ 95% (non-condensing)</li> <li>Present</li> <li>Pasted State State</li> <li>MAC Table Size</li> <li>Jumbo Frame</li> <li>Packet Buffer Size</li> </ul>

#### Power

AD\ANTECH	Industrial Ethernet Solutions	

All product specifications are subject to change without notice.

## EKI-7720E-2F/2FI



#### L2 Features

 VLAN Arrange 802.1Q Tag-based VLAN, 802.1ad QinQ VLAN Stacking Port Mirroring 1 to 1. N to 1 Max. Mirror Session: 4 RSPAN Remote Switched Port Analysis GARP GVRP, GMRP IGMP Snooping v1/v2/v3, MLD IP Multicast Snooping, IGMP Immediate leave Storm Control Broadcast, Multicast, Unknown unicast LLDP 802.1ab LLDP, LLDP-MED Industrial Protocol Modbus/TCP 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, ERPS(G.8032) QoS Priority Queue WRR (Weighted Round Robin), SP (Strict Scheduling Scheduling Priority) Hybrid Priority, Max. Priority Queues: 8

IEEE 802.1p Based CoS, IP TOS, DSCP based CoS

IEEE 802.3ad Dynamic Port Trunking, Static Port

Ingress Rate limit, Egress Rate limit

- Class of Service
- Rate Limiting
- Link Aggregation
  - Trunking

#### Security

- Port Security
- 802.1X
- MAB
- Authentication IP Security
- ACL

#### Management

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

Violation Notice

RADIUS, TACAS+

Max. ACL Entries: 128

Prevention

 Software upgrade NTP

## SNTP client

## **Ordering Information**

EKI-7720E-4FI-BE EKI-7720E-4F-BE

16FE + 4SFP Port Managed Ethernet Switch w/Wide Temp 16FE + 4SFP Port Managed Ethernet Switch

Static/Dynamic MAC, Max. Learning Limit, MAC

IP Source Guard, DHCP Snooping, ARP Spoofing

Port-based/MAC-based Authentication (MD5/PEAP/TLS/TTLS Encryption)

Access Control List (IP-ACL, MAC-ACL)

Client, Server, Option66/67/82, DHCP Relay

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

MAC Authentication Bypass

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