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

16FE+4SFP Port Gigabit Managed **Redundant Industrial Switch**



Features

- 16 fast Ethernet ports + 4 SFP ports
- SFP socket for easy and flexible fiber expansion
- Redundancy: X-Ring Pro (ultra-high-speed recovery time, <20 ms), RSTP/STP (802.1w/1D)
- IXM function enables fast deployment
- Security: 802.1x (port-based, MD5/TLS/TTLS/PEAP encryption),, RADIUS
- Management: SNMP v1/v2c/v3, WEB, Telnet, standard MIB, private MIB
- NEMA TS2 for traffic control
- EN50121-4 approval for railway trackside deployment
- Wide operating temperature range of -40 ~ 75°C (EKI-7720E-4FI)
- Dual 12 ~ 48 V_{DC} power input and 1 x relay output
- Support Security Pack to against internal and external cyber threats



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

Interface	
- I/O Port	16 x 10/100BASE-T/TX RJ-45 4 x SFP (mini-GBIC) port
 Console port 	RS-232 (RJ45)
 Power Connector 	6-pin screw Terminal Block (including relay)

Physical

Enclosure Metal Shell Protection Class IP 30 Installation DIN-Rail

Dimensions (W x H x D) 74 x 152 x 105 mm (2.91" x 5.98" x 4.13")

LED Display

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

Environment

- Operating Temperature -40 ~ 75 °C (-40 ~ 167 °F) (7720E-4FI) -10 ~ 60 °C (-40 ~ 140 °F) (7720E-4F)

 Storage Temperature -40 ~ 85 °C

 Ambient Relative Humidity 10 ~ 95% (non-condensing) - Humidity 10 ~ 95% (non-condensing)

Power

 Power Consumption 14.5Watts@48VDC, 14Watts@12VDC $12 \sim 48 \ V_{DC}$, redundant dual power input Power Input

 Fault Output 1 Relay Output

Certification

= EMI

CE, FCC Class A Safety UL61010-2-201 **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 Shock IEC 60068-2-27 Freefall IEC 60068-2-32 Vihration IEC 60068-2-6 Traffic control NEMA TS2 Railway Trackside EN 50121-4

L2 Features

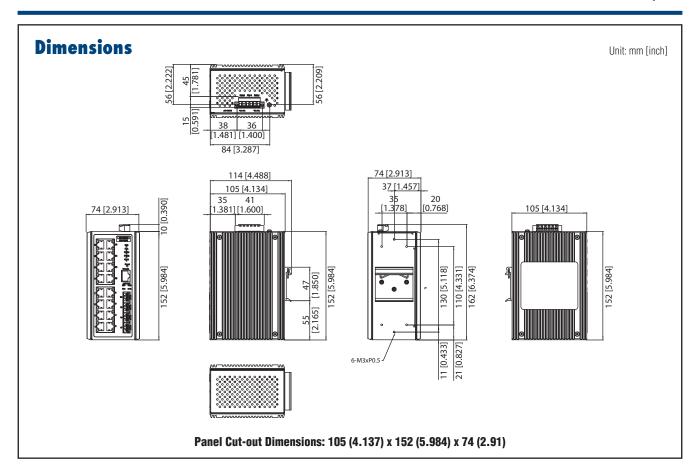
L2 MAC Address

Jumbo Frame 9216 Bytes VLAN Group 256 (VLAN ID 1 ~ 4094) VLAN Arrange Tag-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 Redundancy IEEE 802.1D-STP, IEEE 802.1s-MSTP, IEEE

8K

recovery time less than 20ms

802.1w-RSTP, X-Ring Pro, with ultra high-speed



QoS

 Priority Queue WRR (Weighted Round Robin), SP (Strict Scheduling Scheduling

Priority) Hybrid Priority

Class of Service IEEE 802.1p Based CoS, IP TOS, DSCP based CoS Rate Limiting Ingress Rate limit, Egress Rate limit

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

Trunking

Security

Static, Dynamic IP Source Guard, ARP Spoofing Port Security Prevention, Access Control List, DHCP Snooping,

Authentication 802.1x (Port-Based, MD5/TLS/TTLS/PEAP Encryption), TACACS+

Management

DHCP Client, Server, Option66/67/82

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

Private MIB

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

NTP SNTP client

Ordering Information

EKI-7720E-4FI-AE 16FE + 4SFP Port Managed Ethernet Switch w/Wide

Temp

EKI-7720E-4F-AE 16FE + 4SFP Port Managed Ethernet Switch

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