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

CE, FCC Class A









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

 Power Input $12 \sim 48 \ V_{DC}$, redundant dual power input

 Fault Output 1 Relay Output

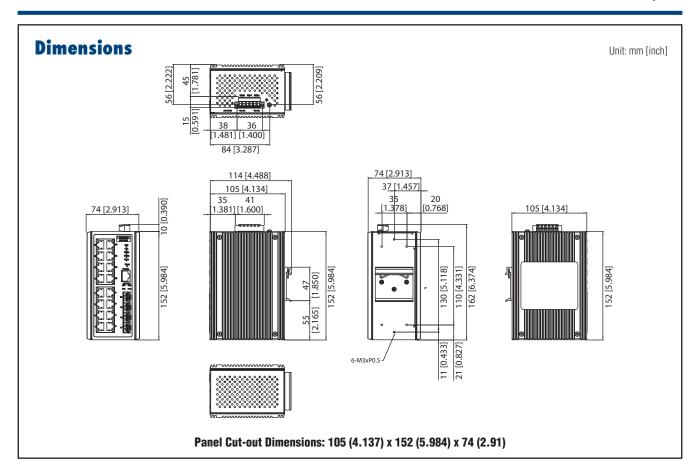
Certification

- EMI

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•	Safety	UL61010-2-201 IEC60950*
•	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
		EN50121-4
-	Shock	IEC 60068-2-27
•	Freefall	IEC 60068-2-32
•	Vibration	IEC 60068-2-6
	Traffic control	NEMA TS2

*= Compliant **L2 Features**

LE I Catalos		
8K		
9216 Bytes		
256 (VLAN ID 1 ~ 4094)		
Port based VLAN, Q-in-Q (VLAN Stacking), GVRP		
Per port, Multi-source port,		
IGMP Snooping v1/v2/v3, MLD		
Snooping, IGMP Immediate leave		
Broadcast, Multicast, Unknown unicast		
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

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

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

Security

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

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

Management

DHCP Client, Server, Option66/67/82

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

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