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 Console port Power Connector	16 x 10/100BASE-T/TX RJ-45 4 x SFP (mini-GBIC) port RS-232 (RJ45) 6-pin screw Terminal Block (including relay)	Certification - EMI - Safety - EMC	
Physical Enclosure Protection Class Installation Dimensions (W x H x D)	Metal Shell IP 30 DIN-Rail 74 x 152 x 105 mm (2.91" x 5.98" x 4.13")	Obert	
LED Display - System LED - Port LED	PWR1, PWR2, SYS, Alarm and R.M. Link / Speed / Activity	 Shock Freefall Vibration Traffic control *= Compliant 	
Environment - Operating Temperature	-40 ~ 75 °C (-40 ~ 167 °F) (7720E-4FI) -10 ~ 60 °C (-40 ~ 140 °F) (7720E-4F)	L2 Features L2 MAC Address	

Power

- Humidity

Power Consumption

Storage Temperature

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

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

-40 ~ 85 °C

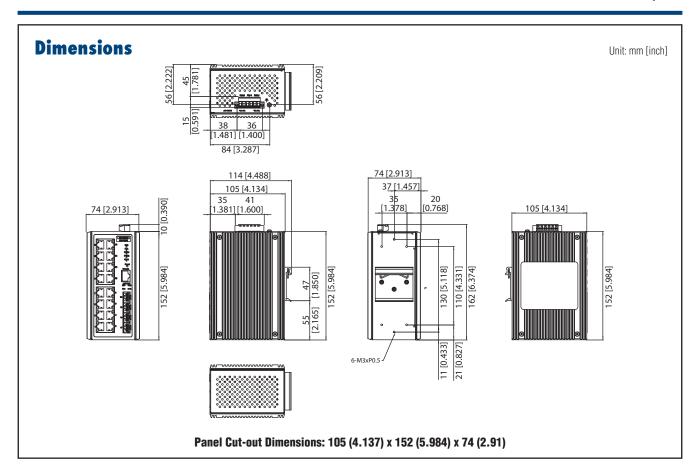
10 ~ 95% (non-condensing)

 Fault Output 1 Relay Output

Cer	tifi	cati	on

•	Safety	UL61010-2-201
		IEC60950*
٠	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
٠	Vibration	IEC 60068-2-6
•	Traffic control	NEMA TS2
*=	: Compliant	

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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

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

802.1x (Port-Based, MD5/TLS/TTLS/PEAP Authentication 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

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