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

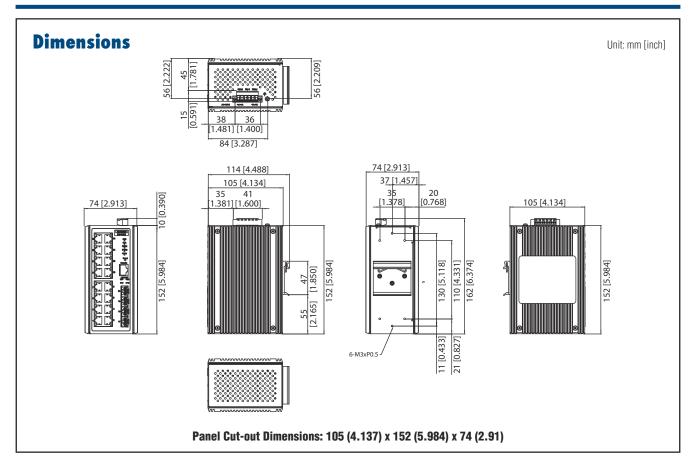
Introduction

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		Certification	
I/O Port	16 x 10/100BASE-T/TX RJ-45	= EMI	CE, FCC Class A
Console portPower Connector	4 x SFP (mini-GBIC) port RS-232 (RJ45) 6-pin screw Terminal Block (including relay)	SafetyEMC	UL61010-2-201 IEC60950* EN 61000-4-2
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")	- Shock	EN 61000-4-3 EN 61000-4-4 EN 61000-4-5 EN 61000-4-6 EN 61000-4-8 EN50121-4 IEC 60068-2-27
LED Display System LED Port LED 	PWR1, PWR2, SYS, Alarm and R.M. Link / Speed / Activity	 Freefall Vibration Traffic control *= Compliant 	IEC 60068-2-32 IEC 60068-2-6 NEMA TS2
Environment Operating Temperature 	-40 ~ 75 °C (-40 ~ 167 °F) (7720E-4FI) -10 ~ 60 °C (-40 ~ 140 °F) (7720E-4F)	L2 FeaturesL2 MAC Address	8K
 Storage Temperature Ambient Relative Humidity Humidity 	-40 ~ 85 °C 10 ~ 95% (non-condensing) 10 ~ 95% (non-condensing)	 Jumbo Frame VLAN Group VLAN Arrange Dort Mirrorian 	9216 Bytes 256 (VLAN ID 1 ~ 4094) Port based VLAN, Q-in-Q (VLAN Stacking), GVRP
Power Power Consumption	TBC	 Port Mirroring IP Multicast 	Per port, Multi-source port, IGMP Snooping v1/v2/v3, MLD Snooping, IGMP Immediate leave
 Power Input Fault Output 	12 ~ 48 V _{DC} , redundant dual power input 1 Relay Output	 Storm Control Redundancy 	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

EKI-7720E-4F/4FI



QoS

- Priority Queue WRR (Weighted Round Robin), SP (Strict Scheduling Priority) Hybrid Priority
- Scheduling
- Class of Service
- Rate Limiting
- Link Aggregation

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

Trunking

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

Management

- DHCP Client, Server, Option66/67/82
- Access

Security access

- Software upgrade
- NTP

Ordering Information

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

SNMP v1/v2c/v3, WEB, Telnet, RMON, Standard MIB, Private MIB SSH2.0, SSL TFTP, HTTP, Dual Image SNTP client

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

IEEE 802.3ad Dynamic Port Trunking, Static Port

Ingress Rate limit, Egress Rate limit