EKI-7706E-2F EKI-7706E-2FI

4FE+2SFP Fast Ethernet Managed Redundant Industrial Switch



Features

- 4 fast Ethernet ports + 2 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
- Wide operating temperature range of -40 ~ 85 °C (EKI-7706E-2FI)
- 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-7706E-2F and EKI-7706E-2FI support 4 fast Ethernet ports and 2 SFP ports. They provide abundant port options for connecting to various device types and are embedded with Advantech's IXM function, which benefits users with fast deployment and considerable savings on engineering time and costs. The EKI-7706E series also support NMS to help IT managers with networking maintenance and failure prevention. Finally, the series is equipped with X-Ring Pro, which can achieve ultra-high-speed recovery times of <20 ms, thus ensuring network stability.

Specifications

Interface

 I/O Port 4 x 10/100BASE-T/TX RJ-45 2 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) 43 x 120 x 84 mm (1.69" x 4.72" x 3.31")

LED Display

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

Environment

 Operating Temperature -40 ~ 85 °C (-40 ~ 185 °F) EKI-7706E-2FI -10 ~ 60 °C (14 ~ 140 °F) EKI-7706E-2F Storage Temperature -40 ~ 85 °C (-40 ~ 185 °F) - Ambient Relative Humidity 10 ~ 95% (non-condensing) Humidity 10 ~ 95% (non-condensing)

Power

 Power Consumption 5.28W @ 48V_{DC} (System)

 Power Input 12~48 V_{DC}, redundant dual power input

 Fault Output 1 Relay Output

Certification

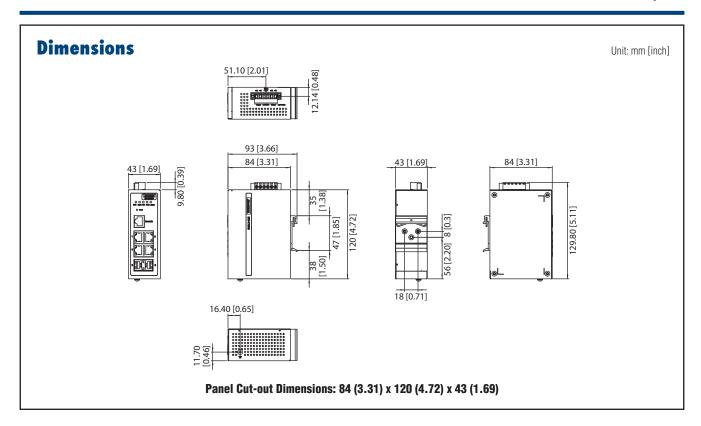
- EMI CE, FCC Class A UL 61010, EN LVD 62368-1 Safety EN 61000-4-2 EMC EN 61000-4-3 EN 61000-4-4 EN 61000-4-5 EN 61000-4-6 EN 61000-4-8 Shock IEC 60068-2-27 Freefall IEC 60068-2-32 Vibration IEC 60068-2-6 Railway Trackside EN 50121-4

L2 Features

 L2 MAC Address 8K Packet Buffer 4.1 Mbit 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 IGMP snooping v1/v2/v3, MLD Snooping, IP Multicast IGMP immediate leave Storm Control Broadcast, multicast, unknown unicast

 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



QoS

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

IEEE 802.1p based CoS, IP TOS, DSCP based CoS Class of Service

 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

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

Encryption), TACACS+

Management

DHCP Client, server, option 66/67/82

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

private MIB

 Security access SSH2.0, SSL

 Software upgrade TFTP, HTTP, dual image

NTP SNTP client

Ordering Information

EKI-7706E-2FI-AE 4FE + 2SFP Port Managed Ethernet Switch w/

Wide Temp

EKI-7706E-2F-AE 4FE + 2SFP Port Managed Ethernet Switch