# **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<sub>DC</sub> 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**

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4 x 10/100BASE-T/TX RJ-45 I/O Port 2 x SFP (mini-GBIC) port · Console port RS-232 (RJ45)

6-pin screw terminal block (including relay) Power Connector

**Physical** 

 Enclosure Metal Shell IP 30 Protection Class 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

10 ~ 95% (non-condensing)

 Storage Temperature -40 ~ 85 °C (-40 ~ 185 °F) Ambient Relative Humidity 10 ~ 95% (non-condensing)

Humidity

**Power** 

 Power Consumption 5.28W @ 48V<sub>DC</sub> (System)

 Power Input 12~48 V<sub>DC</sub>, redundant dual power input

 Fault Output 1 Relay Output

### Certification

FMI CE. FCC Class A Safety UL 61010, EN LVD 62368-1

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 IEC 60068-2-32 Freefall 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

IP Multicast IGMP snooping v1/v2/v3, MLD Snooping,

IGMP immediate leave

 Storm Control Broadcast, multicast, unknown unicast IEEE 802.1D-STP. IEEE 802.1s-MSTP. IEEE Redundancy 802.1w-RSTP, X-Ring Pro, with ultra high-speed

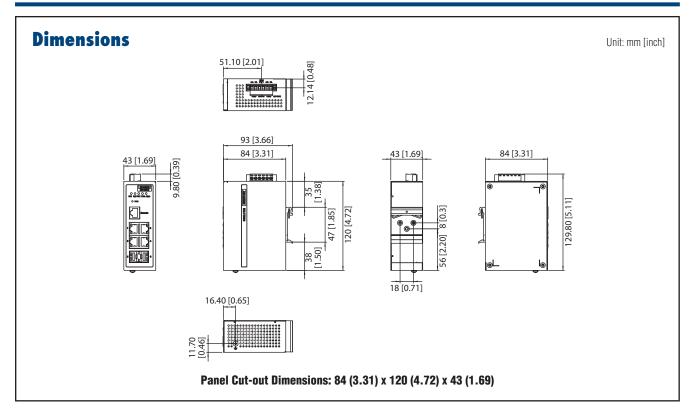
recovery time less than 20ms

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## EKI-7706E-2F/2FI



#### QoS

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

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#### 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

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

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

