# 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/TLS/PEAP encryption), RADIUS •
- Management: SNMP v1/v2c/v3, WEB, Telnet, standard MIB, private MIB

CE, FCC Class A

EN 61000-4-2

EN 61000-4-3 EN 61000-4-4

EN 61000-4-5 EN 61000-4-6

EN 61000-4-8

IEC 60068-2-27

IEC 60068-2-32

256 (VLAN ID 1~4094)

IGMP immediate leave

Per port, multi-source port

IEC 60068-2-6

8K

4.1 Mbit

UL61010

- -40 ~ 85 °C wide-range operating temperature (EKI-7706E-2FI)
- Dual 12~48 V<sub>DC</sub> power input and 1 relay output

# Introduction

EKI-7706E-2F/2FI supports 4 Fast Ethernet ports and 2 SFP ports. It provides abundant ports to connect many devices and it is embedded with Advantech's IXM function, which benefits users with fast deployment and can dramatically save engineers time and costs. The EKI-7706E series also supports NMS to help IT managers with networking maintenance and failure prevention. Finally, the EKI-7706E series is equipped with X-Ring Pro which can achieve ultra-high-speed recovery times of less than 20 ms to ensure network stability.

# **Specifications**

#### Interface

• I/	0 P	ort
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- Console port
- Power Connector

#### **Physical**

- Enclosure Protection Class
- Installation
- Dimensions (W x H x D)
- **LED Display**
- System LED
- Port LED

#### Environment

- Operating Temperature
- Storage Temperature
- Ambient Relative Humidity
- Humidity

#### Power

- Power Consumption
- Power Input
- Fault Output

Metal Shell IP 30 DIN-Rail 43 x 120 x 84 mm (1.69" x 4.72" x 3.31")

6-pin screw terminal block (including relay)

4 x 10/100Base-T/TX RJ-45

2 x SFP (mini-GBIC) port

RS-232 (RJ45)

PWR1, PWR2, SYS, Alarm and R.M.

-40 ~ 85 °C (-40 ~ 185 °F) EKI-7706E-2FI -10 ~ 60 °C (14 ~ 140 °F) EKI-7706E-2F

Link / Speed / Activity

-40 ~ 85 °C (-40 ~ 185 °F)

10 ~ 95% (non-condensing)

10 ~ 95% (non-condensing)

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

1 Relay Output

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

- EMC
- Shock
- Freefall Vibration

#### L2 Features

- L2 MAC Address
- Packet Buffer
- VLAN Group
- VLAN Arrange
- Port Mirroring
- IP Multicast
- 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

IGMP snooping v1/v2/v3, MLD Snooping,

Port based VLAN, Q-in-Q (VLAN Stacking), GVRP

AD\ANTECH Industrial Ethernet Soultions

#### Certification EMI Safety

# EKI-7706E-2F/2FI



#### QoS

- Priority Queue
- Class of Service
- Rate Limiting
- Link Aggregation

#### Security

- Port Security
- Authentication

#### Management

- DHCP
- Access
- Security access
- Software upgrade
- NTP

- WRR (Weighted Round Robin), SP (Strict Scheduling Priority) hybrid priority
- IEEE 802.1p based CoS, IP TOS, DSCP based CoS
- Ingress rate limit, egress rate limit
  - IEEE 802.3ad dynamic port trunking, static port trunking

### Static, dynamic

- 802.1x (port-based, MD5/TLS/TTLS/PEAP encryption)
- Client, server, option 66/67/82 SNMP v1/v2c/v3, WEB, Telnet, RMON, standard MIB,

SNTP client

- private MIB
  - SSH2.0, SSL TFTP, HTTP, dual image

# **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