4FE+2SFP Fast Ethernet Managed Redundant Industrial Switch


## Feafures

- 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 $-40 \sim 85^{\circ} \mathrm{C}$ (EKI-7706E-2FI)
- Dual $12 \sim 48$ Voc power input and 1 x relay output
- Support Security Pack to against internal and external cyber threats


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## 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 $<20 \mathrm{~ms}$, thus ensuring network stability.

## Specifications

## Interface

- l/O Port
- 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

PWR1, PWR2, SYS, Alarm and R.M.
Link / Speed / Activity
5.28W @ 48V Dc (System)
$4 \times 10 / 100 B A S E-T / T X ~ R J-45$ $2 \times$ SFP (mini-GBIC) port RS-232 (RJ45)
6 -pin screw terminal block (including relay)
$43 \times 120 \times 84 \mathrm{~mm}$ ( $\left.1.69^{\prime \prime} \times 4.72^{\prime \prime} \times 3.31^{\prime \prime}\right)$
$-40 \sim 85^{\circ} \mathrm{C}\left(-40 \sim 185^{\circ} \mathrm{F}\right)$ EKI-7706E-2FI
$-10 \sim 60^{\circ} \mathrm{C}\left(14 \sim 140^{\circ} \mathrm{F}\right)$ EKI-7706E-2F
$-40 \sim 85^{\circ} \mathrm{C}\left(-40 \sim 185^{\circ} \mathrm{F}\right)$
10~95\% (non-condensing)
10~95\% (non-condensing)
$12 \sim 48 \mathrm{~V}_{\text {oc }}$, redundant dual power input
1 Relay Output

## Certification

- EMI
- Safety
- EMC
- Shock
- Freefall
- Vibration


## L2 Features

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

CE, FCC Class A
UL61010
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
IEC 60068-2-6

8K
4.1 Mbit

256 (VLAN ID 1~4094)
Port based VLAN, Q-in-Q (VLAN Stacking), GVRP
Per port, multi-source port
IGMP snooping v1/v2//33, MLD Snooping,
IGMP immediate leave
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 20 ms

## Dimensions

Unit: mm [inch]


Panel Cut-out Dimensions: 84 (3.31) x 120 (4.72) x 43 (1.69)

## QoS

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


## Security

- Port Security
- Authentication


## 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
- NTP

TFTP, HTTP, dual image
SNTP client

## Ordering Information

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

