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
- 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

-40 ~ 85 °C (-40 ~ 185 °F) EKI-7706E-2FI Operating Temperature -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

- FMI 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 FN 61000-4-6 FN 61000-4-8 IEC 60068-2-27

Shock IEC 60068-2-32 Freefall Vibration IEC 60068-2-6 Railway Trackside FN 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 Redundancy IEEE 802.1D-STP, IEEE 802.1s-MSTP, IEEE 802.1w-RSTP, X-Ring Pro, with ultra high-speed

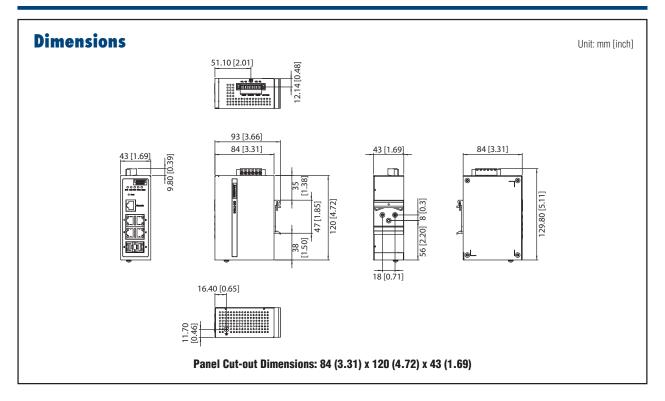
recovery time less than 20ms

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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 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

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

private MIB

 Security access SSH2.0, SSL TFTP, HTTP, dual image Software upgrade

NTP SNTP client

Ordering Information

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

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

