EKI-7706G-2F EKI-7706G-2FI

4GE+2SFP Gigabit Managed **Redundant Industrial Switch**



Features

- 4 Gigabit 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
- -40 ~ 85 °C wide-range operating temperature (EKI-7706G-2FI)
- Dual 12~48 V_{DC} power input and 1 relay output









Introduction

EKI-7706G-2F/2FI supports 4 Gigabit 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-7706G series also supports NMS to help IT managers with networking maintenance and failure prevention. Finally, the EKI-7706G 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/O Port 4 x 10/100/1000Base-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 DIN-Rail Installation

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-7706G-2FI -10 ~ 60 °C (14 ~ 140 °F) EKI-7706G-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)

12~48 VDC, redundant dual power input Power Input

 Fault Output 1 Relay Output

Certification

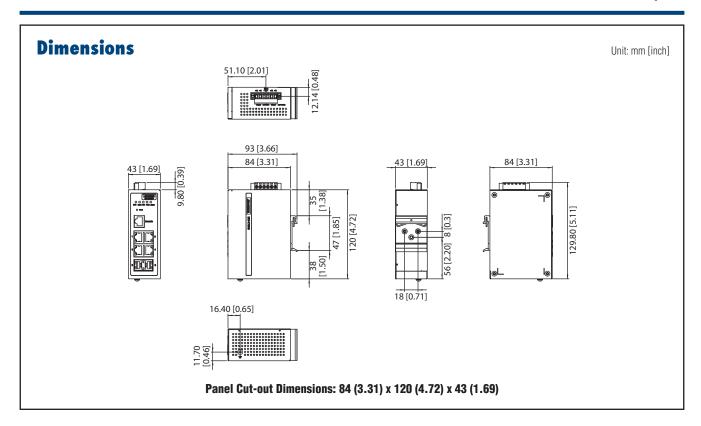
EMI CE, FCC Class A UL61010 Safety EN 61000-4-2 **EMC** EN 61000-4-3 EN 61000-4-4 EN 61000-4-5 EN 61000-4-6 EN 61000-4-8 Shock IEC 60068-2-27 Freefall IEC 60068-2-32

Vibration **L2 Features**

 L2 MAC Address Packet Buffer 4.1 Mbit VLAN Group 256 (VLAN ID 1~4094) Port based VLAN, Q-in-Q (VLAN Stacking), GVRP VLAN Arrange Port Mirroring Per port, multi-source port IP Multicast IGMP snooping v1/v2/v3, MLD Snooping, IGMP immediate leave Storm Control

IEC 60068-2-6

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

• 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

• **Authentication** 802.1x (port-based, MD5/TLS/TTLS/PEAP encryption)

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-7706G-2FI-AE 4GE + 2SFP Port Managed Ethernet Switch w/ Wide Temp

EKI-7706G-2F-AE 4GE + 2SFP Port Managed Ethernet Switch