# **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</li> (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-7706G-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-7706G-2F and EKI-7706G-2FI support 4 Gigabit Ethernet and 2 SFP ports. They provide abundant port options for connecting to various device types and are embedded with Advantech's IXM function, which can benefit users with fast deployment while saving considerably on engineering time and costs. The EKI-7706G series also support NMS to help IT managers with networking maintenance and failure prevention. Finally, the series are equipped with X-Ring Pro, which can achieve ultra-high-speed recovery times of <20 ms, thus ensuring network stability.

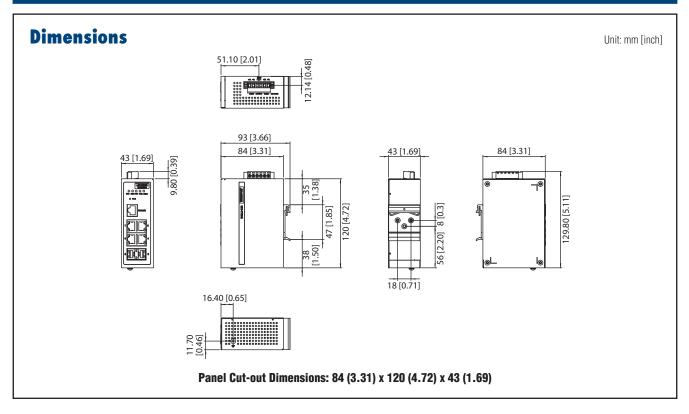
# **Specifications**

## Interface

Interface I/O Port Console port Power Connector	4 x 10/100/1000BASE-T/TX RJ-45 2 x SFP (mini-GBIC) port RS-232 (RJ45) 6-pin screw terminal block (including relay)	Certification EMI Safety EMC	CE, FCC Class A UL61010 EN 61000-4-2 EN 61000-4-3 EN 61000-4-4
<ul> <li>Physical</li> <li>Enclosure</li> <li>Protection Class</li> <li>Installation</li> <li>Dimensions (W x H x D)</li> </ul>	Metal Shell IP 30 DIN-Rail 43 x 120 x 84 mm (1.69" x 4.72" x 3.31")	<ul> <li>Shock</li> <li>Freefall</li> <li>Vibration</li> </ul>	EN 61000-4-5 EN 61000-4-6 EN 61000-4-8 IEC 60068-2-27 IEC 60068-2-32 IEC 60068-2-6
LED Display • System LED • Port LED Environment • Operating Temperature • Storage Temperature • Ambient Relative Humidity • Humidity Power • Power Consumption • Power Input • Fault Output	PWR1, PWR2, SYS, Alarm and R.M. Link / Speed / Activity -40 ~ 85 °C (-40 ~ 185 °F) EKI-7706G-2FI -10 ~ 60 °C (14 ~ 140 °F) EKI-7706G-2F -40 ~ 85 °C (-40 ~ 185 °F) 10 ~ 95% (non-condensing) 10 ~ 95% (non-condensing) 5.28W @ 48V <sub>DC</sub> (System) 12-48 V <sub>DC</sub> , redundant dual power input 1 Relay Output	L2 Features L2 MAC Address Packet Buffer VLAN Group VLAN Arrange Port Mirroring IP Multicast Storm Control Redundancy	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/v3, 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 20ms

#### Industrial Ethernet Solutions AD\ANTECH

# EKI-7706G-2F/2FI



## QoS

Priority Queue
 WRR (Weighted Round Robin), SP (Strict Scheduling
 Priority) hybrid priority

trunking

IEEE 802.1p based CoS, IP TOS, DSCP based CoS

IEEE 802.3ad dynamic port trunking, static port

Ingress rate limit, egress rate limit

- Class of Service
- Rate Limiting
- Link Aggregation

### 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,

TFTP, HTTP, dual image

SSH2.0, SSL

SNTP client

- private MIB
- Security access
- Software upgrade
- NTP

## **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