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

4GE+2SFP Gigabit Managed Redundant Industrial Switch

Features

- 4 Gigabit Ethernet ports with auto negotiation, MDI/MDI-X function, Full/Half duplex + 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 ~ 85°C (EKI-7706G-2FI)
- Dual 12~48 V_{DC} power input and 1 x relay output
- Supports Security Pack to fight against internal and external cyber

Introduction

The EKI-7706G-2F and EKI-7706G-2FI support 4 Gigabit 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 can benefit users with faster deployment while saving considerably on engineering time and costs. The EKI-7706G series also supports NMS to help IT managers with networking maintenance and failure prevention. 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 10/100/1000BASE-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
Installation	DIN-Rail
Dimensions (W x H x D)	43 x 120 x 84 mm (1.69" x 4.72" x 3.31")
Switch Fabric Speed	12Gbps
Jumbo Frame	9,216Bytes

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)
Power Input	12~48V_{DC}, redundant dual power input
	24V_{DC} Max

Fault Output	1 Relay Output 1A @
Reverse polarity protection	Support
Overload current protection	Support

Certification

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

L2 Features

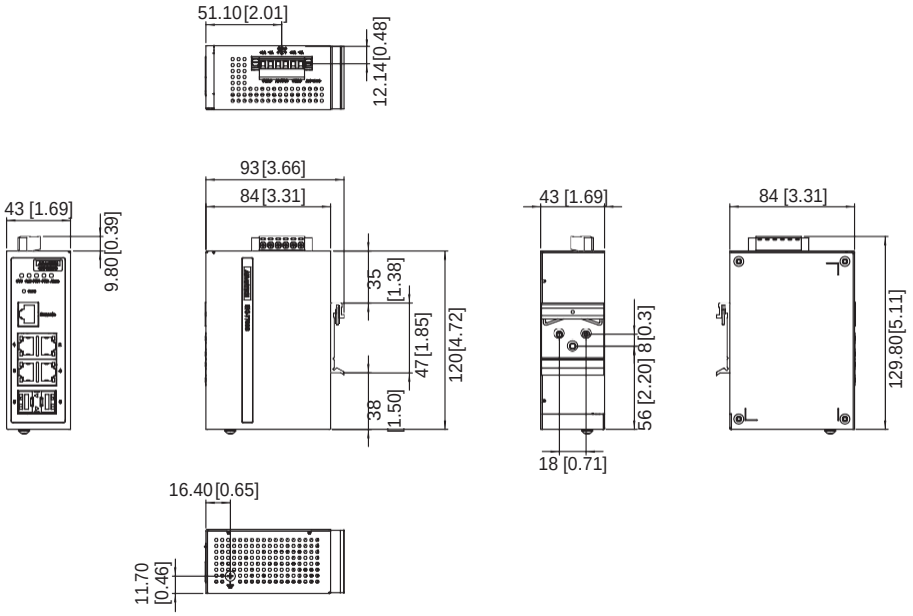
③	**L2 MAC Address**	8K
③	**Packet Buffer**	4.1 Mbit
③	**VLAN Group**	256 (VLAN ID 1~4094)
③	**VLAN Arrange**	Port based VLAN, Q-in-Q (VLAN Stacking), GVRP
③	**Port Mirroring**	Per port, multi-source port
③	**IP Multicast**	IGMP snooping v1/v2/v3, MLD Snooping, IGMP immediate leave
③	**Storm Control**	Broadcast, multicast, unknown unicast
③	**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
③	**IEEE Standard**	802.3, 802.3u, 802.3ab, 802.3x, 802.3z, 802.1D, 802.1w, 802.1p, 802.1Q, 802.1x, 802.3ad

All product specifications are subject to change without notice.

Last updated: 18-Aug-2020

Dimensions

Unit: mm [inch]



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

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
- **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

Note: For SFP copper type, only 1000Mbps supported

Industrial Communication Products Ltd
Tel: +44(0) 203 086 9569
Web: www.industrialcomms.com
Email: sales@industrialcomms.com