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/TLS/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 threats
- Store and forward

Pv6 55 c(VL) us C € FCC ROHS

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

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4 x 10/100/1000BASE-T/TX RJ-45 I/O Port 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 43 x 120 x 84 mm (1.69" x 4.72" x 3.31") Dimensions (W x H x D) 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 $-40 \sim 85$ °C ($-40 \sim 185$ °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 @ 48Vpc (System) Power Input 12~48 V_{DC}, redundant dual power input 1 Relay Output 1A @ 24V_{DC} Max Fault Output

- Reverse polarity protection Support - Overload current protection Support

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 IEC 60068-2-6

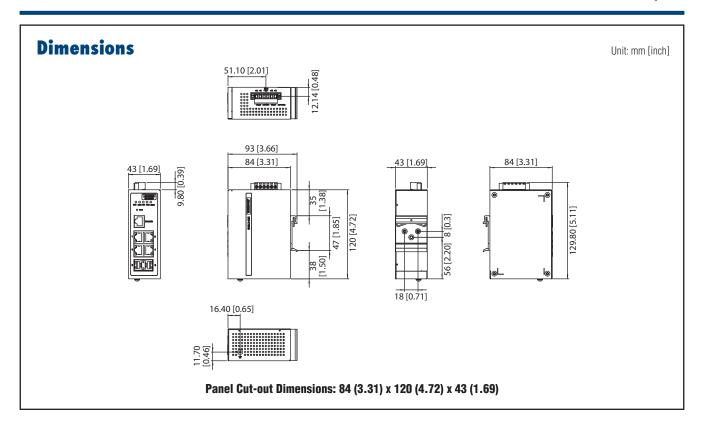
L2 Features

L2 MAC Address

 Packet Buffer 4.1 Mbit VLAN Group 256 (VLAN ID 1~4094) VLAN Arrange Port 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 IEEE 802.1D-STP, IEEE 802.1s-MSTP, IEEE Redundancy 802.1w-RSTP, X-Ring Pro, with ultra high-speed recovery time less than 20ms

8K

 IEEE Standard 802.3, 802.3u, 802.3ab, 802.3x, 802.3z, 802.1D, 802.1w, 802.1p, 802.1Q, 802.1x, 802.3ad



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