

EKI-7712G-4F

EKI-7712G-4FI

8G+4G SFP Port Gigabit Managed Redundant Industrial Switch



Features

- 8 x Gigabit Ethernet ports + 4 x SFP ports
- Redundancy: X-Ring Pro (ultra-high-speed recovery time, <20 ms), RSTP/STP (802.1w/1D)
- IXM function for fast deployment
- Security Pack with 802.1X, ACL, RADIUS, TACACS+, MAB Authentication, SNMPv3, HTTPS, SSH, and SFTP
- Management: SNMP v1/v2c/v3, WEB, Telnet, standard MIB, private MIB
- Supports NMS for easy and visualized to monitor and manage network remotely
- Dual 12 ~ 48 V_{DC} power input and 1 x relay output

Introduction

The EKI-7712G-4F and EKI-7712G-4FI provide users with abundant port options for connecting to a range of different device types with 8 Gigabit ports and 4 SFP (mini-GBIC) ports. These units are embedded with Advantech's IXM function, which can benefit users with fast deployment and can save considerably on engineering time and costs. The EKI-7712G 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. The EKI-7712G-4FI also features a wide operating temperature of -40 to 75°C and NEMA TS2 rating, making it ideal for use in traffic applications. Both the EKI-7712G-4F and EKI-7712G-4FI comply with EN50121-4 European railway standard requirements for emissions and railway platform and trackside deployment.

Specifications

Interfaces / Communications

- **I/O Port**
 - 8 x 10/100/1000BASE-T/TX RJ-45
 - 4 x SFP (mini-GBIC) port
 - Auto-Negotiation, Full/Half Duplex Mode
 - Auto MDI/MDI-X Connection
- **Standards**
 - IEEE 802.3 for 10BaseT
 - IEEE 802.3u for 100BaseT(X)/FX
 - IEEE 802.3ab 1000BaseT(X)
 - IEEE 802.3z for 1000BaseSX/LX/LHX/ZX
 - IEEE 802.3x for Flow Control
- **Console port**
 - RS-232 (RJ45)
- **Power Connector**
 - 6-pin screw Terminal Block (including relay)

Physical

- **Enclosure**
 - Metal Shell
- **Protection Class**
 - IP 40
- **Installation**
 - DIN-Rail, Wall-mount
- **Dimensions (W x H x D)**
 - 74 x 152 x 105 mm (2.91" x 5.98" x 4.13")

LED Indicators

- **System LED**
 - PWR1, PWR2, SYS, Alarm and R.M.
- **Port LED**
 - Link / Speed / Activity

Environment

- **Operating Temperature**
 - 40 ~ 75°C (-40 ~ 167°F) (EKI-7712G-4FI)
 - 10 ~ 60°C (-40 ~ 140°F) (EKI-7712G-4F)
- **Storage Temperature**
 - 40 ~ 85°C (-40 ~ 185°F)
- **Ambient Relative Humidity**
 - 5 ~ 95% (non-condensing)
- **Overload Current Protection**
 - Present
- **Reverse Polarity Protection**
 - Present
- **MTBF**
 - 1,377,597 hours

Power

- **Power Consumption**
 - 12.1W @ 48V_{DC} (System)
- **Power Input**
 - 12 ~ 48 V_{DC}, redundant dual power input
- **Fault Output**
 - 1 Relay Output

Certification

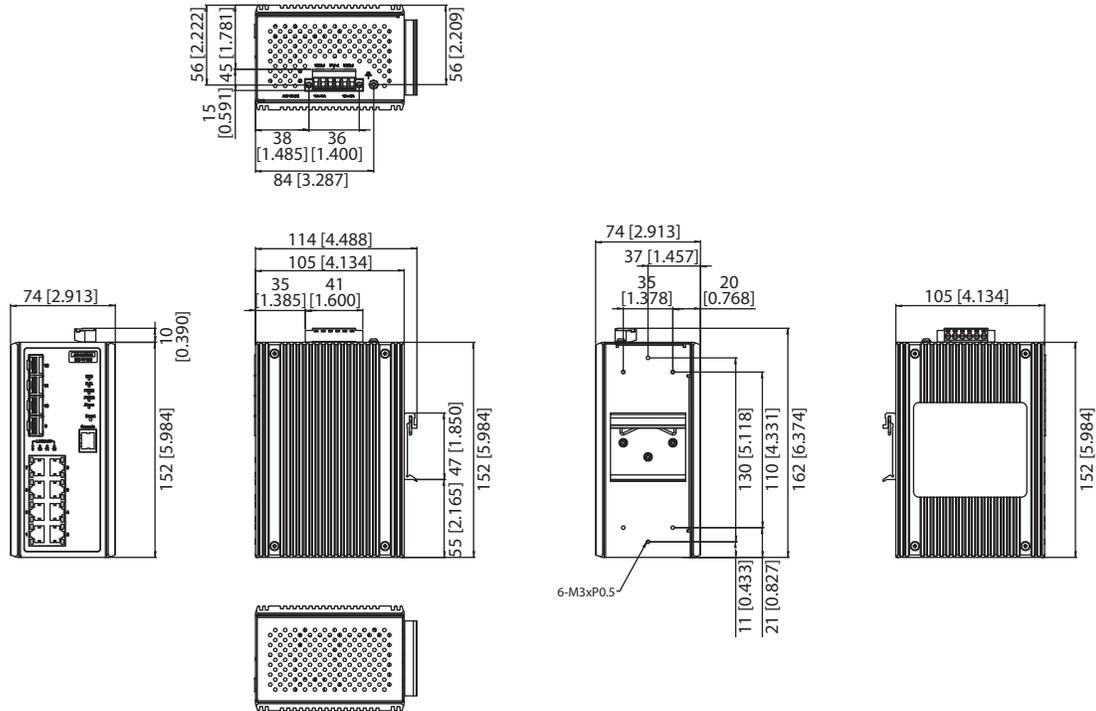
- **Safety**
 - UL 61010-2-201, EN LVD 62368
- **EMI**
 - CE, CISPR 32, FCC Part 15B Class A
- **EMS**
 - EN 61000-4-2
 - EN 61000-4-3
 - EN 61000-4-4
 - EN 61000-4-5
 - EN 61000-4-6
 - EN 61000-4-8
- **EMC**
 - EN 61000-6-2
 - EN 61000-6-4
- **Shock**
 - IEC 60068-2-27
- **Freefall**
 - IEC 60068-2-32
- **Vibration**
 - IEC 60068-2-6
- **Traffic control**
 - NEMA TS-2
- **Railway Trackside**
 - EN 50121-4
- **Security**
 - IEC 62443-4-2 SL2

Switch Properties

- **Switch Capacity**
 - 24Gbps
- **Transmission Rate**
 - 17.8Mpps
- **MAC Table Size**
 - 8K
- **Jumbo Frame**
 - 1,0240 Bytes
- **Packet Buffer Size**
 - 4.1Mb
- **Max. IGMP Group**
 - 256
- **Max. VLAN Group**
 - 256 (VLAN ID 1 ~ 4094)

Dimensions

Unit: mm [inch]



Panel Cut-out Dimensions: 105 (4.137) x 152 (5.984) x 74 (2.91)

L2 Features

- **VLAN Arrange** 802.1Q Tag-based VLAN, 802.1ad QinQ VLAN Stacking
- **Port Mirroring** 1 to 1, N to 1
Max. Mirror Session: 4
- **RSPAN** Remote Switched Port Analysis
- **GARP** GVRP, GMRP
- **IP Multicast** IGMP Snooping v1/v2/v3, MLD Snooping, IGMP Immediate leave
- **Storm Control** Broadcast, Multicast, Unknown unicast
- **LLDP** 802.1ab LLDP, LLDP-MED
- **Industrial Protocol** Modbus/TCP
- **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, ERPS(G.8032)

QoS

- **Priority Queue Scheduling** WRR (Weighted Round Robin), SP (Strict Scheduling Priority) Hybrid Priority, Max. Priority Queues: 8
- **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 MAC, Max. Learning Limit, MAC Violation Notice
- **802.1X** Port-based/MAC-based Authentication (MD5/PEAP/TLS/TTLS Encryption)
- **MAB** MAC Authentication Bypass
- **Authentication** RADIUS, TACAS+
- **IP Security** IP Source Guard, DHCP Snooping, ARP Spoofing Prevention
- **ACL** Access Control List (IP-ACL, MAC-ACL)
Max. ACL Entries: 128

Management

- **DHCP** Client, Server, Option66/67/82, DHCP Relay
- **Access** SNMP v1/v2c/v3, WEB, Telnet, RMON, Standard MIB-II, Private MIB, Ethernet-Like MIB, RMON MIB (Group 1, 2, 3, 9)
- **Security access** SSH2.0, SSL
- **Software upgrade** TFTP, SFTP, HTTP, Dual Image
- **NTP** SNTP client

Ordering Information

- **EKI-7712G-4FI-BE** 8GE + 4SFP Port Managed Ethernet Switch w/Wide Temp
- **EKI-7712G-4F-BE** 8GE + 4SFP Port Managed Ethernet Switch

Note: For SFP copper type, only 1000Mbps supported.

Tento produkt můžete zakoupit u společnosti AutoCont IPC a.s.



AutoCont IPC a.s.

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 Uhlířská 1064/3, 710 00 Ostrava, Česká republika

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Pravidelní zákazníci u nás nakupují za nižší ceny. Výše slevy se odvíjí od realizovaného obrátu.



SERVIS ON-SITE A IN-TIME

K projektovým dodávkám nabízíme rozšířenou podporu a servis s garancí výměny zařízení do 48 hodin.