

# EKI-7720G-4F

# EKI-7720G-4FI

## 16GE+4SFP Port Gigabit Managed Redundant Industrial Switch



### Features

- 16 x Gigabit Ethernet ports + 4 x 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
- NEMA TS2 for traffic control
- EN50121-4 approval for railway trackside deployment
- Wide operating temperature range of -40 ~ 75°C (EKI-7720G-4FI)
- 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-7720G-4F and EKI-7720G-4FI provide users with abundant port options for connecting to various device types with 16 Gigabit Ethernet ports and 4 SFP (mini-GBIC) ports. These switches are embedded with Advantech's IXM function, which can benefit users with fast deployment and can dramatically save on engineering time and costs. The series also support NMS to help IT managers with networking maintenance and failure prevention. Finally, these switches are equipped with X-Ring Pro, which can achieve ultra-high-speed recovery times of <20 ms, thus ensuring network stability. The EKI-7720G-4FI in particular features a wide operating temperature range of wide -40 ~ 75°C.

### Specifications

#### Interface

- **I/O Port** 16 x 10/100/1000BASE-T/TX RJ-45  
4 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)** 74 x 152 x 105 mm (2.91" x 5.98" x 4.13")

#### LED Display

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

#### Environment

- **Operating Temperature** -40 ~ 75°C (-40 ~ 167°F) (7720G-4FI)  
-10 ~ 60°C (-40 ~ 140°F) (7720G-4F)
- **Storage Temperature** -40 ~ 85°C
- **Ambient Relative Humidity** 10 ~ 95% (non-condensing)
- **Humidity** 10 ~ 95% (non-condensing)

#### Power

- **Power Consumption** 14.5Watts@48V<sub>DC</sub>, 14Watts@12V<sub>DC</sub>
- **Power Input** 12 ~ 48 V<sub>DC</sub>, redundant dual power input
- **Fault Output** 1 Relay Output

#### Certification

- **EMI** CE, FCC Class A
- **Safety** UL 61010, EN LVD 62368-1
- **EMC** EN 61000-4-2  
EN 61000-4-3  
EN 61000-4-4  
EN 61000-4-6  
EN 61000-4-8  
IEC 60068-2-27
- **Shock** IEC 60068-2-32
- **Freefall** IEC 60068-2-32
- **Vibration** IEC 60068-2-6
- **Traffic control** NEMA TS2
- **Railway Trackside** EN 50121-4

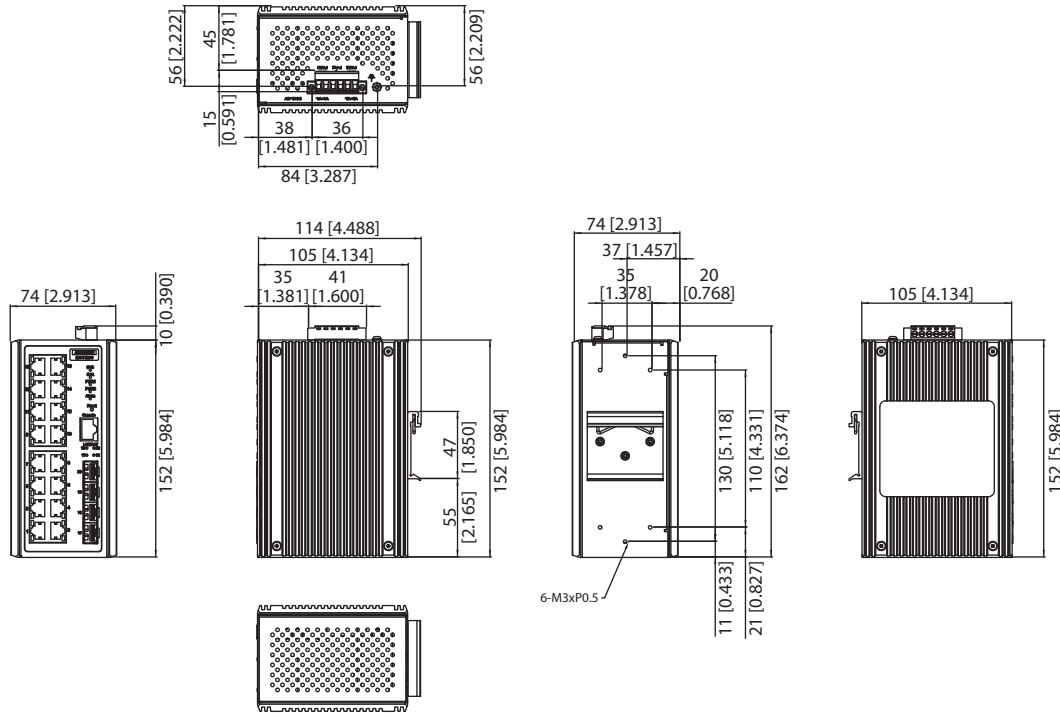
#### L2 Features

- **L2 MAC Address** 8K
- **Jumbo Frame** 9216 Bytes
- **VLAN Group** 256 (VLAN ID 1 ~ 4094)
- **VLAN Arrange** Tag-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
- **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



## Dimensions

Unit: mm [inch]



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

### QoS

- **Priority Queue Scheduling** 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, Option66/67/82
- **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-7720G-4FI-AE** 16GE + 4SFP Port Managed Ethernet Switch w/Wide Temp
- **EKI-7720G-4F-AE** 16GE + 4SFP Port Managed Ethernet Switch

Vertrieb durch



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