

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_{DC} 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_{DC}, 14Watts@12V_{DC}
- Power Input 12 ~ 48 V_{DC}, redundant dual power input
- Fault Output 1 Relay Output

Certification

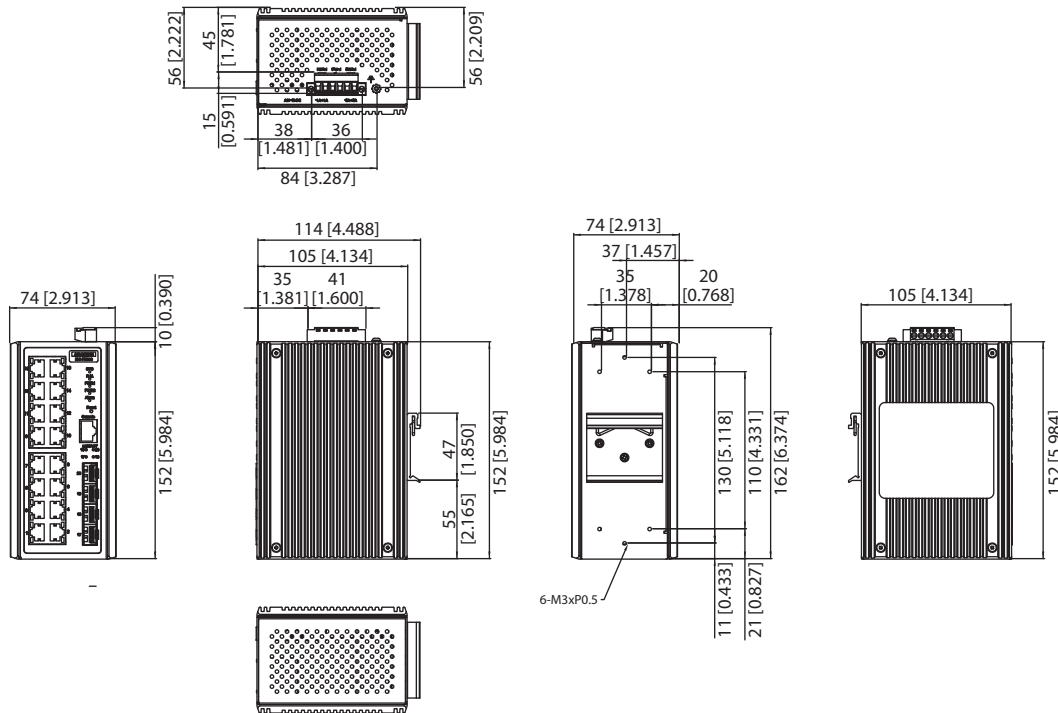
- EMI CE, FCC Class A
- Safety UL 61010, EN LVD 62368-1
- EMC EN 61000-4-2
EN 61000-4-3
EN 61000-4-4
EN 61000-4-5
EN 61000-4-6
EN 61000-4-8
- Shock IEC 60068-2-27
- Freefall IEC 60068-2-32
- Vibration IEC 60068-2-6
- Traffic control NEMA TS2
- Railway Trackside EN 50121-4

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