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/TLS/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 islay output
- Support Security Pack to again it internal and external cyber threats



Introduction

The EKI-7720G-4F and EKI-7720G-4FI provide users with abundant port options for connecting to various de *icc* was 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 no car dramatically save on engineering time and costs. The series also support NMS to help IT managers with networking maintenance and failure prevention. Finally, these switch as 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 feature, a vir a 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 B'Jock (including relay)

Physical

Enclosure Metal Shell
 Protection Class IP 30
 Installation DIN-Rail

■ **Dimensions (W x H x D)** 7-4 × 15∠ × 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

Power

Power Consumption
 Power Input
 Fault Output
 14.5Watts@48V_{DC}, 14Watts@12V_{DC}
 12 ~ 48 V_{DC}, redundant dual power input
 1 Relay Output

Certification

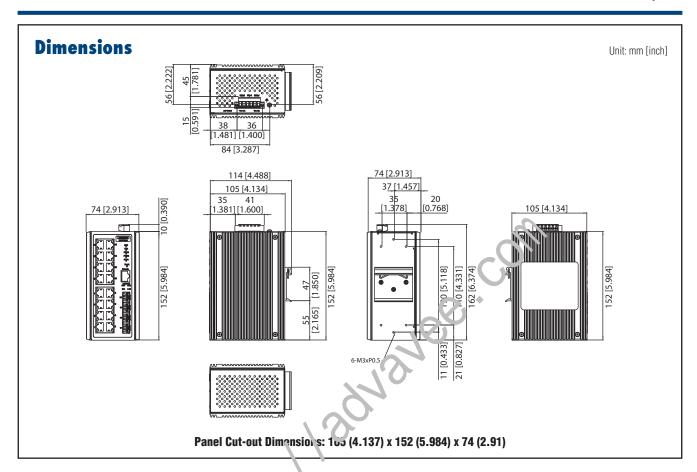
= EMI CE, FCC Class A Safety UL 61010, EN LVD 62368-1 EMC EN 61000-4-2 EN 61000-4-3 EN 61000-4-4 EN 61000-4-5 EN 61000-4-6 EN 61000-4-8 Shock IEC 60068-2-27 Freefall IEC 60068-2-32 Vihration IEC 60068-2-6 Traffic control NEMA TS2 Railway Trackside EN 50121-4

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

AD\ANTECH

Industrial Ethernet Solutions



QoS

Priority Queue WRR (Weighted Round Robin) SP (Strict Scheduling Scheduling Priority) Hybrid Priority

Class of Service
 Rate Limiting
 IEEE 802.1p Based CrS, In TO', DSCP based CoS
 Ingress Rate limit, Egre, s Rate limit

• Link Aggregation IEEE 802.3ad Dy. amic 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

Note: For SFP copper type, only 1000Mbps supported