

# EKI-7720G-4F EKI-7720G-4FI

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



- 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.

Certification

## **Specifications**

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<ul> <li>I/O Port</li> </ul>	16 x 10/100/1000BASE-T/TX RJ-45 4 x SFP (mini-GBIC) port	<ul><li>EMI</li><li>Safety</li></ul>	CE, FCC Class A UL61010-2-201
<ul><li>Console port</li><li>Power Connector</li></ul>	RS-232 (RJ45) 6-pin screw Terminal Block (including relay)	• EMC	IEC60950* EN 61000-4-2 EN 61000-4-3
Physical - Enclosure - Protection Class - Installation - Dimensions (W x H x D)	Metal Shell IP 30 DIN-Rail 74 x 152 x 105 mm (2.91" x 5.98" x 4.13")	- Shock - Freefall	EN 61000-4-4 EN 61000-4-5 EN 61000-4-6 EN 61000-4-8 EN50121-4 IEC 60068-2-27
LED Display <ul> <li>System LED</li> <li>Port LED</li> </ul>	PWR1, PWR2, SYS, Alarm and R.M. Link / Speed / Activity	<ul> <li>Freefail</li> <li>Vibration</li> <li>Traffic control</li> <li>*= Compliant</li> </ul>	IEC 60068-2-32 IEC 60068-2-6 NEMA TS2
Environment • Operating Temperature • Storage Temperature • Ambient Relative Humidity • Humidity	-40 ~ 75°C (-40 ~ 167°F) (7720G-4FI) -10 ~ 60°C (-40 ~ 140°F) (7720G-4F) -40 ~ 85°C 10 ~ 95% (non-condensing) 10 ~ 95% (non-condensing)	L2 Features L2 MAC Address Jumbo Frame VLAN Group VLAN Arrange Port Mirroring	8K 9216 Bytes 256 (VLAN ID 1 ~ 4094) Port based VLAN, Q-in-Q (VLAN Stacking), GVRP Per port, Multi-source port,
Power Power Consumption Power Input Fault Output	TBC 12 ~ 48 V <sub>DC</sub> , redundant dual power input 1 Relay Output	<ul> <li>IP Multicast</li> <li>Storm Control</li> <li>Redundancy</li> </ul>	IGMP Snooping v1/v2/v3, MLD Snooping, IGMP Immediate leave Broadcast, Multicast, Unknown unicast IEEE 802.1D-STP, IEEE 802.1s-MSTP, IEEE 802.1w-RSTP, X-Ring Pro, with ultra high-speed

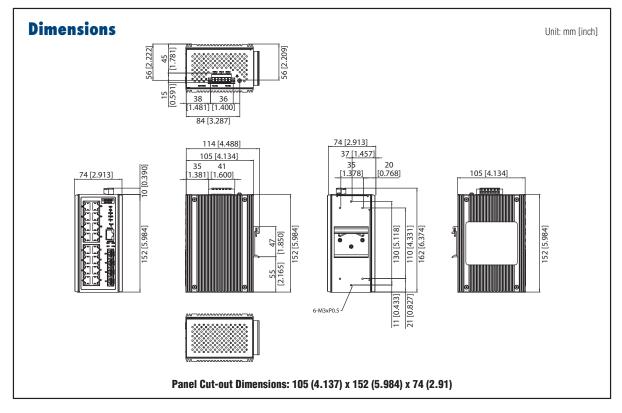
AD\ANTECH Industrial Ethernet Solutions
All product specifications are subject to change without notice.

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recovery time less than 20ms



## EKI-7720G-4F/4FI



#### QoS

- Priority Queue Scheduling
- Class of Service
- Rate Limiting
- Link Aggregation

#### Security

- Port Security
- Authentication

#### Management

- DHCP
- Access
- Security access
- Software upgrade
- NTP
- SNMP v1/v2c/v3, WEB, Telnet, RMON, Standard MIB, Private MIB SSH2.0, SSL TFTP, HTTP, Dual Image

SNTP client

Client, Server, Option66/67/82

Encryption), TACACS+

Priority) Hybrid Priority

Trunking

Ingress Rate limit, Egress Rate limit

WRR (Weighted Round Robin), SP (Strict Scheduling

IEEE 802.1p Based CoS, IP TOS, DSCP based CoS

IEEE 802.3ad Dynamic Port Trunking, Static Port

Static, Dynamic IP Source Guard, ARP Spoofing

802.1x (Port-Based, MD5/TLS/TTLS/PEAP

Prevention, Access Control List, DHCP Snooping,

- **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

**Online Download** www.advantech.com/products