# 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<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.

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# **Specifications**

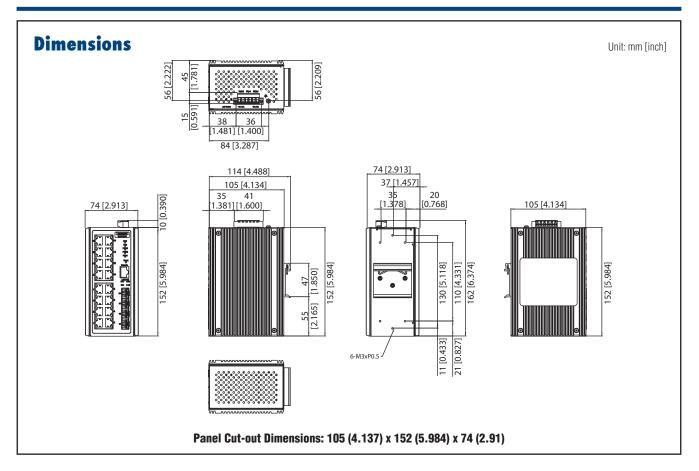
## Intorf

Interface		Certification	
I/O Port	16 x 10/100/1000BASE-T/TX RJ-45	- EMI	CE, FCC Class A
1,01011	4 x SFP (mini-GBIC) port	<ul> <li>Safety</li> </ul>	UL61010-2-201
<ul> <li>Console port</li> </ul>	RS-232 (RJ45)		IEC60950*
<ul> <li>Power Connector</li> </ul>	6-pin screw Terminal Block (including relay)	EMC	EN 61000-4-2
			EN 61000-4-3
Physical			EN 61000-4-4
Enclosure	Metal Shell		EN 61000-4-5 EN 61000-4-6
Protection Class	IP 30		EN 61000-4-8
Installation	DIN-Rail		EN50121-4
<ul> <li>Dimensions (W x H x D)</li> </ul>	74 x 152 x 105 mm (2.91" x 5.98" x 4.13")	Shock	IEC 60068-2-27
		<ul> <li>Freefall</li> </ul>	IEC 60068-2-32
LED Display		<ul> <li>Vibration</li> </ul>	IEC 60068-2-6
<ul> <li>System LED</li> </ul>	PWR1, PWR2, SYS, Alarm and R.M.	<ul> <li>Traffic control</li> </ul>	NEMA TS2
<ul> <li>Port LED</li> </ul>	Link / Speed / Activity	*= Compliant	
Environment			
<ul> <li>Operating Temperature</li> </ul>	-40 ~ 75°C (-40 ~ 167°F) (7720G-4FI)	L2 Features	
- Operating reinperature	-10 ~ 60°C (-40 ~ 140°F) (7720G-4F)	L2 MAC Address	8K
<ul> <li>Storage Temperature</li> </ul>	-40 ~ 85°C	<ul> <li>Jumbo Frame</li> </ul>	9216 Bytes
<ul> <li>Ambient Relative Humidity</li> </ul>	10 ~ 95% (non-condensing)	<ul> <li>VLAN Group</li> </ul>	256 (VLAN ID 1 ~ 4094)
<ul> <li>Humidity</li> </ul>	10 ~ 95% (non-condensina)	<ul> <li>VLAN Arrange</li> </ul>	Port based VLAN, Q-in-Q (VLAN Stacking), GVRP
,	to cove (ten concentration)	<ul> <li>Port Mirroring</li> </ul>	Per port, Multi-source port,
Power		IP Multicast	IGMP Snooping v1/v2/v3, MLD
Power Consumption	14.5Watts@48Vdc,14Watts@12Vdc		Snooping, IGMP Immediate leave
<ul> <li>Power Input</li> </ul>	12 ~ 48 V <sub>DC</sub> , redundant dual power input 1 Relay	<ul> <li>Storm Control</li> </ul>	Broadcast, Multicast, Unknown unicast
<ul> <li>Fault Output</li> </ul>	Output	<ul> <li>Redundancy</li> </ul>	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

All product specifications are subject to change without notice.

# EKI-7720G-4F/4FI



## QoS

 Priority Queue WRR (Weighted Round Robin), SP (Strict Scheduling Scheduling Priority) Hybrid Priority IEEE 802.1p Based CoS, IP TOS, DSCP based CoS

IEEE 802.3ad Dynamic Port Trunking, Static Port

SNMP v1/v2c/v3, WEB, Telnet, RMON, Standard MIB,

- Class of Service Ingress Rate limit, Egress Rate limit
- Rate Limiting
- Link Aggregation

### Security

Port Security	Static, Dynamic IP Source Guard, ARP Spoofing	
	Prevention, Access Control List, DHCP Snooping,	
<ul> <li>Authentication</li> </ul>	802.1x (Port-Based, MD5/TLS/TTLS/PEAP	

802.1x (Port-Based, MD5/TLS/TTLS/PEAP Encryption), TACACS+

## Management

 DHCP Client, Server, Option66/67/82

Private MIB

SNTP client

Trunking

Access

Security access

- SSH2.0, SSL TFTP, HTTP, Dual Image Software upgrade
- NTP

## **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