# **EKI-7758F**

### 4G+4 SFP Gigabit Managed Redundant **Industrial Ethernet Switch**



#### **Features**

- All Gigabit Ethernet ports for 4 Copper and 4 SFP
- SFP sockets for easy and flexible fiber expansion
- Redundancy: Gigabit X-Ring Pro (ultra high-speed recovery time < 20 ms), RSTP/STP (802.1w/1D)
- Management: Web, Telnet, Serial Console, SNMP
- Control: VLAN/GVRP, QoS, IGMP Snooping/Query, LACP, Rate Limit
- Security: IP/MAC and port binding, DHCP Server, IP access list, 802.1X, SSL
- Diagnostic: Port statistic, Port Mirroring, RMON, Trap, Email Alert, Syslog
- Dual 12 ~ 48 V<sub>DC</sub> power input and 1 relay output











The EKI-7758F supports eight Gigabit ports with four Ethernet and four SFP. To create reliability in your network, the EKI-7758F comes equipped with a proprietary redundant network protocol -- X-Ring that was developed by Advantech, which provides users with an easy way to establish a redundant Ethernet network with ultra high-speed recovery time less than 20 ms. Furthermore, the EKI-7758F also supports many advanced network standards to optimize network performance, ease maintenance issues, and secure network safety.

## **Specifications**

#### **Communications**

Standard IEEE 802.3, 802.3u, 802.3x, 802.3z, 802.1D, 802.1w,

802.1p, 802.1Q, 802.1X, 802.3ad, 802.3ab

100Base-T (X), 10/1000Base-T, Optional 100Base-FX, LAN

1000Base-SX/LX/LHX/XD/ZX/EZX

• Transmission Distance Ethernet: Up to 100 m (4- wire Cat.5e, Cat.6 RJ45

cable suggested for Gigabit port) SFP: Up to 110 km (depends on SFP)

Gigabit Copper: 10/100/1000 Mbps, Auto-Negotiation Transmission Speed

SFP: Up to 1000 Mbps

Interface

LED Indicators

Connectors 4 x RJ45 (Ethernet)

4 x SFP (mini-GBIC) ports

6-pin removable screw terminal (Power & Relav) System: PWR, R.M., PWR1, PWR2, P-Fail

Gigabit Copper: Link/Activity, Speed

SFP: Link/Activity

Console RS-232 (RJ45)

#### **Network Management**

 Configuration Web browser, Telnet, Serial consloe, TFTP.

SNMPv1/v2c/v3, Port Speed/Duplex Configuration,

All product specifications are subject to change without notice

IEEE 802.1Q, GVRP, Port-based VLAN VLAN

 Redundancy Advantech X-Ring Pro (Recovery time < 20 ms at 250 pcs full loading ring structure), Dual Homing,

Dual Ring, Couple Ring, 802.1w/D RSTP/STP

Security IP Access security, port security, DHCP Server, Port

and IP Binding, 802.1X Port Access Control, SSL

 Traffic Control IGMP Snooping/Query for multicast group

management, Port Trunking, Static/802.3ad, LACP Rate limit and storm control, IEEE 802.1p QoS CoS/TOS/ DSCP priority queuing, IEEE 802.3x flow control

 Diagnostics Port Mirroring, Real-time traffic statistic, MAC Address

Table, SNTP, Syslog, E-Mail Alert, SNMP Trap, RMON

#### Mechanism

Enclosure IP30, metal shell with solid mounting kits

**Dimensions (W x H x D)** 79 x 152 x 105 mm (3.11" x 5.98" x 4.13")

 Mounting DIN-rail, Wall

#### **Power**

Power Consumption Max 17 W

 Power Input 12 ~ 48 V<sub>DC</sub>, redundant dual inputs

 Fault Output 1 Relay Output

#### **Protection**

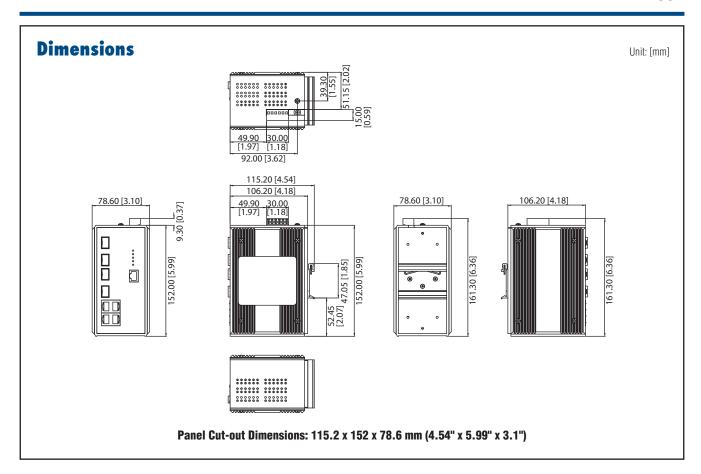
 Power Reverse Present **Overload Current** Present

#### **Environment**

• Operating Temperature  $-10 \sim 60^{\circ}\text{C}$  (14 ~ 140°F)

 Storage Temperature -40 ~ 85°C (-40 ~ 185°F) Operating Humidity 5 ~ 95% (non-condensing) Storage Humidity 0 ~ 95% (non-condensing)

MTBF 289.777 hours



#### Certification

Safety UL 60950-1, CAN/CSA-C22.2 No.60950

Class I, Division 2

= EMI FCC Part 15 Subpart B Class A, EN 55022 Class A

EN 61000-4-2 EMS 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

# **Ordering Information**

EKI-7758F

4G+4 SFP Managed Gigabit Ethernet Switch