

## Feafures

- 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 $12 \sim 48$ Voc power input and 1 relay output


## Introduction

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
- LAN
- Transmission Distance

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

- Transmission Speed

Gigabit Copper:10/100/1000 Mbps, Auto-Negotiation SFP: Up to 1000 Mbps

## Interface

- Connectors
- LED Indicators
- Console
$4 \times$ RJ45 (Ethernet) $4 \times$ SFP (mini-GBIC) ports
6 -pin removable screw terminal (Power \& Relay) System: PWR, R.M., PWR1, PWR2, P-Fail Gigabit Copper: Link/Activity, Speed SFP: Link/Activity

Network Management

- Configuration

Web browser, Telnet, Serial consloe, TFTP, SNMPv1/v2c/v3, Port Speed/Duplex Configuration, IPv6

- VLAN
- Redundancy
- Security

IEEE 802.1Q, GVRP, Port-based VLAN
Advantech X-Ring Pro (Recovery time $<20 \mathrm{~ms}$ at 250 pcs full loading ring structure), Dual Homing, Dual Ring, Couple Ring, 802.1w/D RSTP/STP IP Access security, port security, DHCP Server, Port and IP Binding, 802.1X Port Access Control, SSL

- Traffic Control
- Diagnostics


## Mechanism

- Enclosure IP30, metal shell with solid mounting kits
- Dimensions (W x H x D) $79 \times 152 \times 105 \mathrm{~mm}\left(3.11\right.$ " $\times 5.98$ " $\times 4.13^{\prime \prime}$ )
- Mounting DIN-rail, Wall


## Power

- Power Consumption Max. 17 W
- Power Input $\quad 12 \sim 48 \mathrm{~V}$ oc, redundant dual inputs
- Fault Output 1 Relay Output

Protection

- Power Reverse Present
- Overload Current Present


## Environment

- Operating Temperature $-10 \sim 60^{\circ} \mathrm{C}\left(14 \sim 140^{\circ} \mathrm{F}\right)$
- Storage Temperature $-40 \sim 85^{\circ} \mathrm{C}\left(-40 \sim 185^{\circ} \mathrm{F}\right)$
- Operating Humidity $5 \sim 95 \%$ (non-condensing)
- Storage Humidity $0 \sim 95 \%$ (non-condensing)
- MTBF 289,777 hours


## Dimensions

Unit: [mm]




Panel Cut-out Dimensions: $115.2 \times 152 \times 78.6 \mathrm{~mm}$ (4.54" x 5.99" x 3.1 ")

## Certification

- Safety
- EMI
- EMS
- Freefall
- Vibration

UL 60950-1, CAN/CSA-C22. 2 No. 60950 Class I, Division 2
FCC Part 15 Subpart B Class A, EN 55022 Class A
EN 61000-4-2
EN 61000-4-3
EN 61000-4-4
EN 61000-4-5
EN 61000-4-6
EN 61000-4-8
IEC 60068-2-27
IEC 60068-2-32
IEC 60068-2-6

## Ordering Information

- EKI-7758F 4G+4 SFP Managed Gigabit Ethernet Switch

