

# EKI-2748FI

# EKI-2748CI

## 4Gx+4SFP Managed Ethernet Switch with Wide Temperature

## 6Gx+2 Combo Managed Ethernet Switch with Wide Temperature



EKI-2748FI

EKI-2748CI



### Features

- All Gigabit Ethernet ports for Copper and SFP/Combo interfaces
- 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 v1/v2c/v3
- 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

### Introduction

EKI-2748FI and EKI-2748CI supports Gigabit with Ethernet and SFP/Combo ports. To enhance reliability in industrial communication network, it equipped with Advantech owned redundant network protocol -- X-Ring Pro, which provides users with an easy way to establish a redundant Ethernet network with ultra high-speed recovery time less than 20 ms. Furthermore, EKI-2748FI and EKI-2748CI also support advanced network standards to optimize network performance, reduce maintenance cost, 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
- **LAN** 100Base-T (X), 10/100Base-T, Optional 100Base-FX, 1000Base-SX/LX/LHX/XD/ZX/EZX
- **Transmission Speed** Gigabit Copper: 10/100/1000 Mbps, Auto-Negotiation  
SFP: Up to 1000 Mbps

#### Interface

- **Connectors** RJ45 x 4; SFP Combo: 100/1000 SFP \*4 (EKI-2748FI)  
RJ45 x 6; SFP Combo: RJ45 x 2;  
100/1000 Mini-GBIC x 2 (EKI-2748CI)  
Console port : RJ45 x 1
- **LED Indicators** System: PWR1, PWR2, P-Fail, R-Master  
Gigabit Copper: Link/Activity, Speed  
SFP: Link/Activity
- **Console** RS-232 (RJ45)

#### Network Management

- **Configuration** SNMP v1/v2c/v3, Web, Telnet, CLI, IPv6
- **VLAN** IEEE 802.1Q, GVRP, Port-based VLAN
- **Redundancy** Advantech X-Ring Pro (Recovery time < 20 ms at 250 pcs full loading ring structure), Dual Homing, Dual Ring, Couple Ring, IEEE 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, DMI

#### Mechanism

- **Enclosure** IP30, metal shell with solid mounting kits
- **Dimensions (W x H x D)** 59.6 x 152 x 105 mm (2.35" x 5.98" x 4.13")
- **Mounting** DIN-rail, Wall

#### Power

- **Power Consumption** Max. 12.21 W (EKI-2748FI)  
Max. 15.12 W (EKI-2748CI)
- **Power Input** 12 ~ 48 V<sub>DC</sub>, 24 V<sub>AC</sub> (18 ~ 30 V<sub>AC</sub>)
- **Fault Output** 1 Relay Output

#### Protection

- **Power Reverse** Present
- **Overload Current** Present

#### Environment

- **Operating Temperature** -40 ~ 75°C (-40 ~ 167°F)
- **Storage Temperature** -40 ~ 85°C (-40 ~ 185°F)
- **Operating Humidity** 5 ~ 95% (non-condensing)
- **Storage Humidity** 5 ~ 95% (non-condensing)
- **MTBF** 248,507 hours (EKI-2748CI)  
289,385 hours (EKI-2748FI)

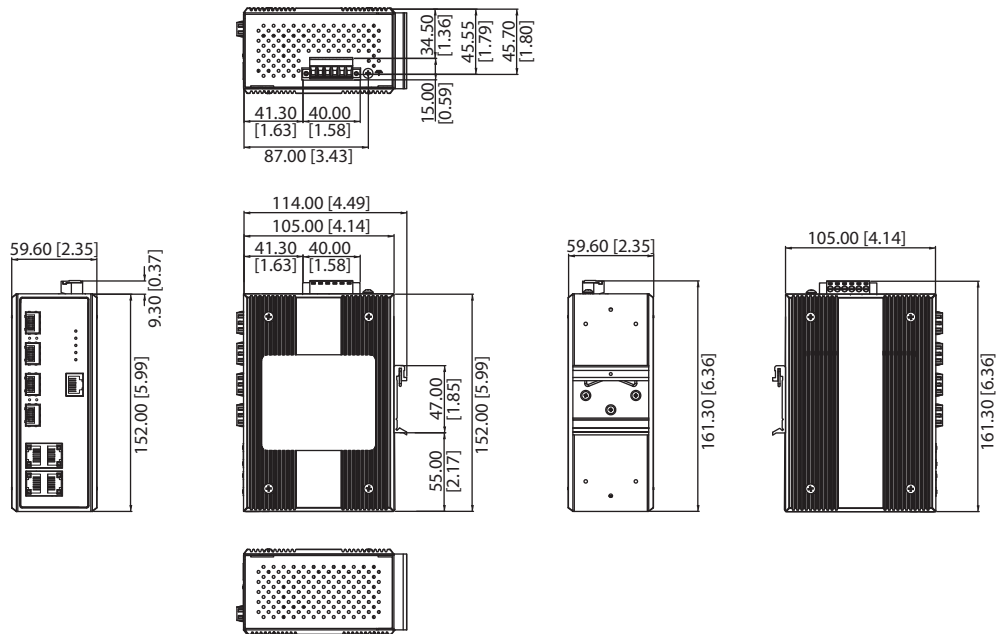
#### Certification

- **Safety** UL 508  
Class I, Division 2
- **EMI** FCC Part 15 Subpart B Class A, EN 55022 Class A
- **EMS** 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
- **Vibration** IEC 60068-2-6

## Dimensions

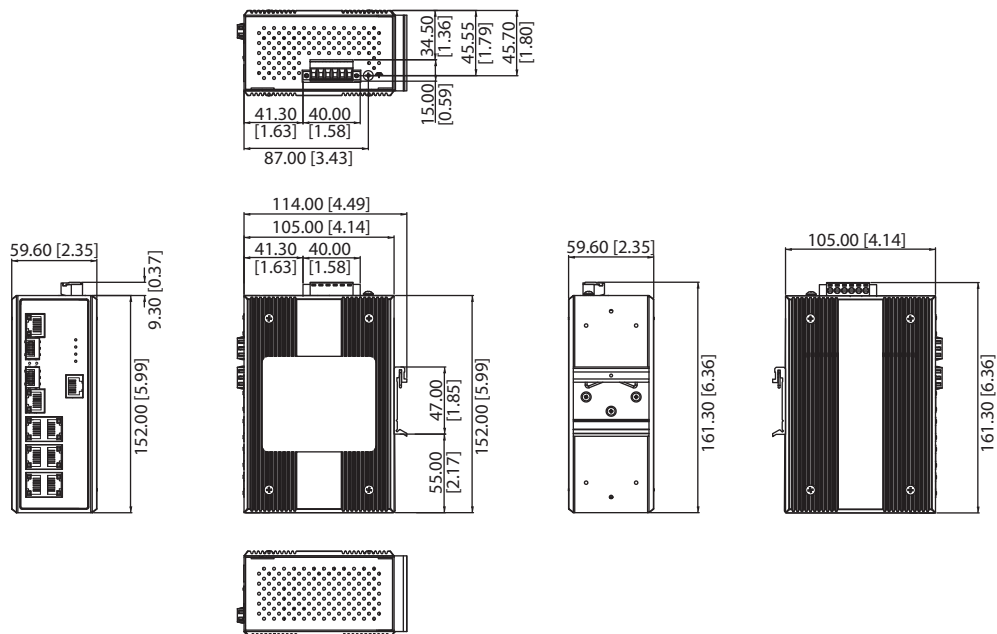
Unit: mm [inch]

### EKI-2748FI



**Panel Cut-out Dimensions: 114 x 152 x 59.6 mm (4.49" x 5.99" x 2.35)**

### EKI-2748CI



**Panel Cut-out Dimensions: 114 x 152 x 59.6 mm (4.49" x 5.99" x 2.35)**

## Ordering Information

- **EKI-2748FI** 6Gx + 2G Combo Port Managed Ethernet Switch w/ Wide Temp
- **EKI-2748CI** 4Gx + 3G SFP Managed Ethernet Switch w/ Wide Temp