

EKI-2748FI

EKI-2748CI

**4Gx+4SFP Managed Ethernet Switch
with Wide Temperature Support**

**6Gx+2 Combo Managed Ethernet Switch
with Wide Temperature Support**



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_{DC} 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 networks, it is equipped with Advantech's 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 times of 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** 10/100/1000 Base-T(X), 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_{DC}, 24 V_{AC} (18 ~ 30 V_{AC})
- **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)

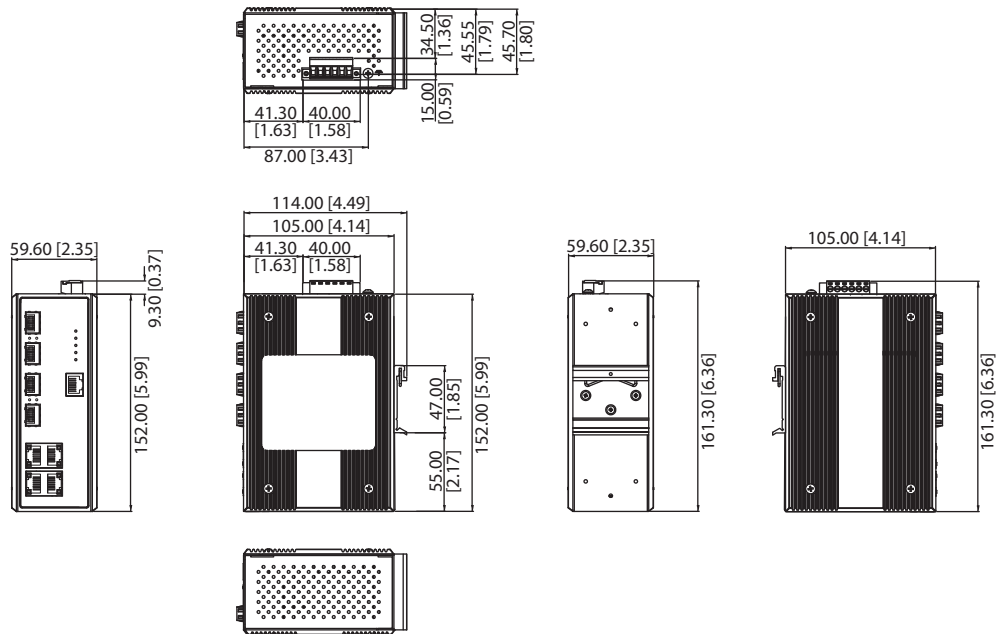
Certification

- **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

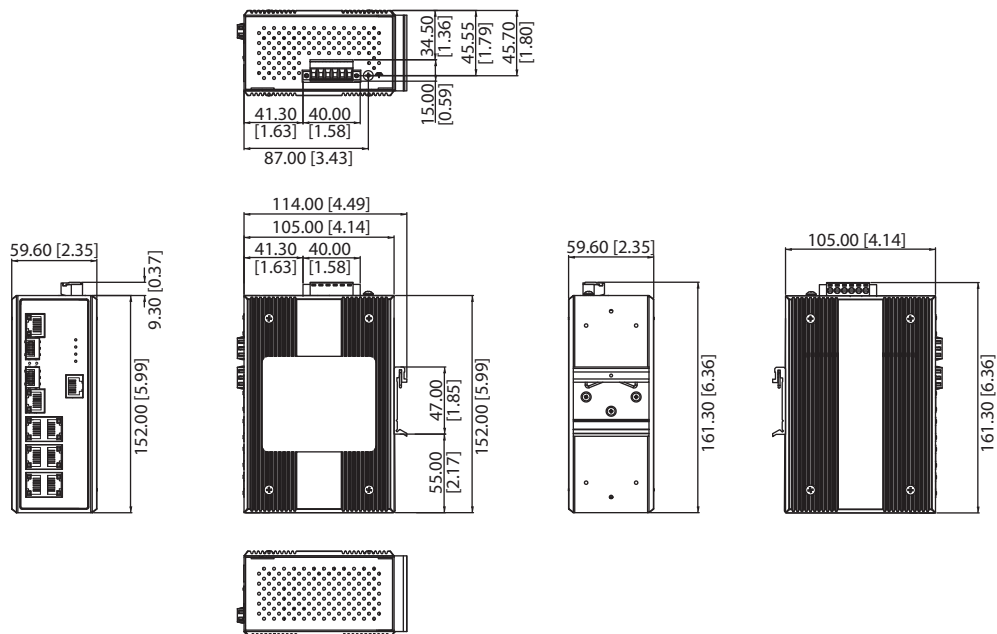
Unit: mm [inch]

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