EKI-2748FI

4Gx+4SFP Managed Ethernet Switch with Wide Temperature

EKI-2748CI

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_{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 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), 10/1000Base-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_{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)
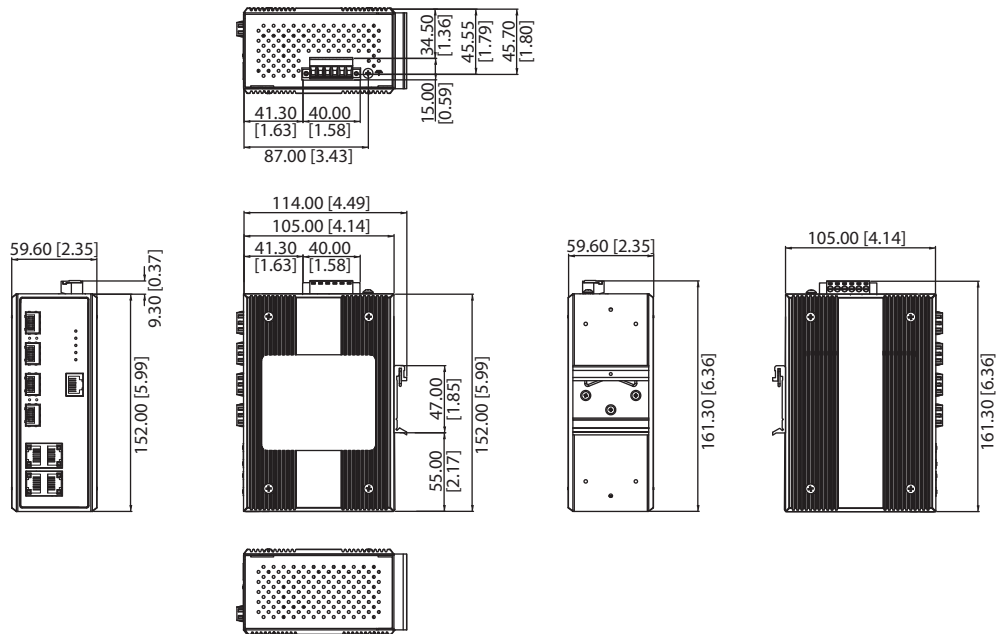- **MTBF** — 248,507 hours (EKI-2748CI) 289,385 hours (EKI-2748FI)

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

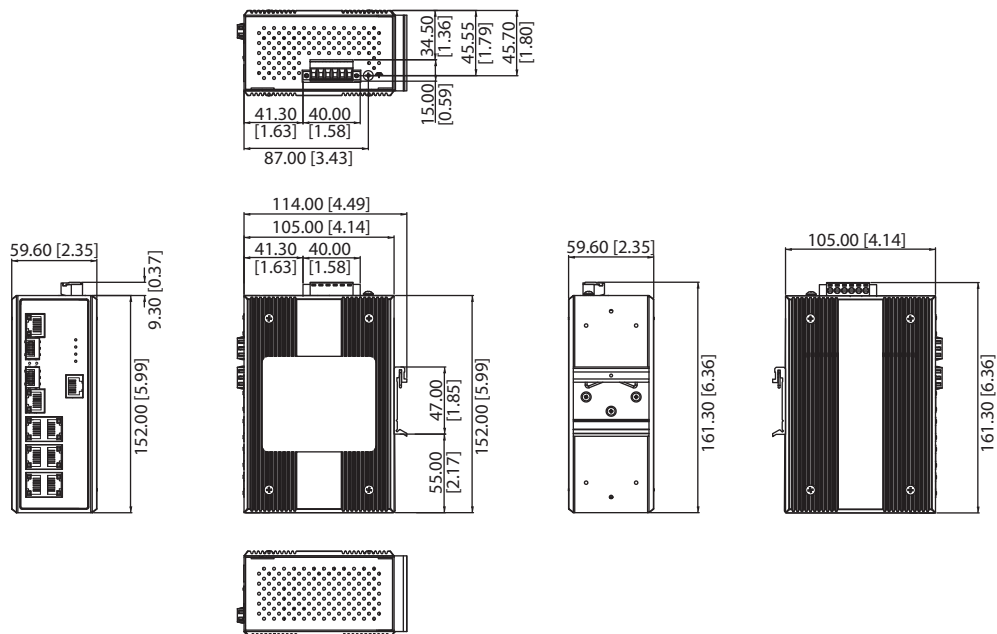## Dimensions

Unit: [mm]

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

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