Chipsmall Limited consists of a professional team with an average of over 10 year of expertise in the distribution of electronic components. Based in Hongkong, we have already established firm and mutual-benefit business relationships with customers from,Europe,America and south Asia,supplying obsolete and hard-to-find components to meet their specific needs.

With the principle of "Quality Parts,Customers Priority,Honest Operation,and Considerate Service",our business mainly focus on the distribution of electronic components. Line cards we deal with include Microchip,ALPS,ROHM,Xilinx,Pulse,ON,Everlight and Freescale. Main products comprise IC,Modules,Potentiometer,IC Socket,Relay,Connector.Our parts cover such applications as commercial,industrial, and automotives areas.

We are looking forward to setting up business relationship with you and hope to provide you with the best service and solution. Let us make a better world for our industry!

Contact us

EKI-2748FI
EKI-2748CI

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

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

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

EKI-2748FI   EKI-2748CI

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)
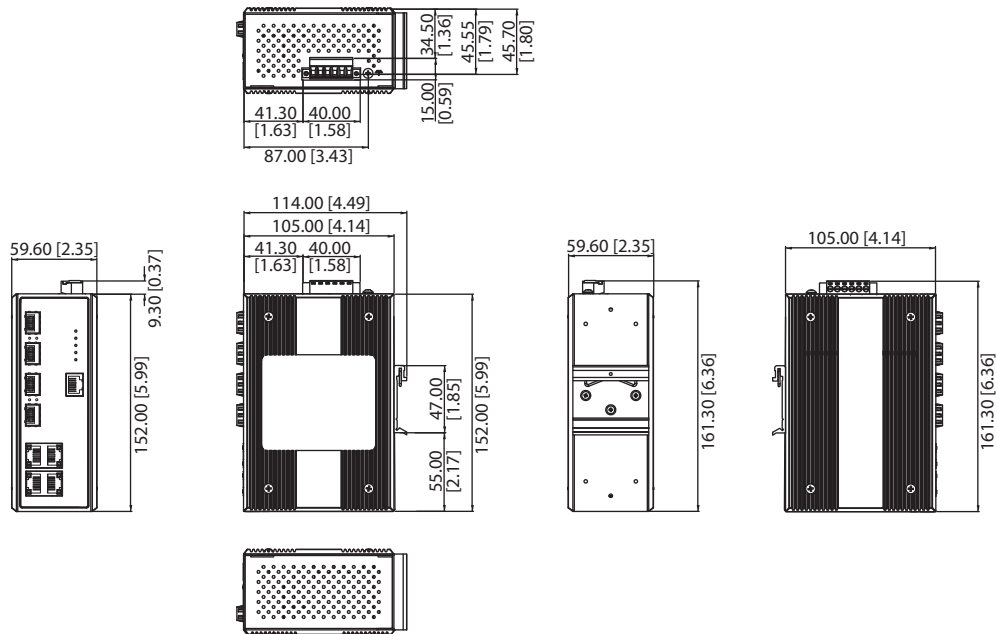- **MTBF** 248,507 hours (EKI-2748CI) 289,385 hours (EKI-2748FI)

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
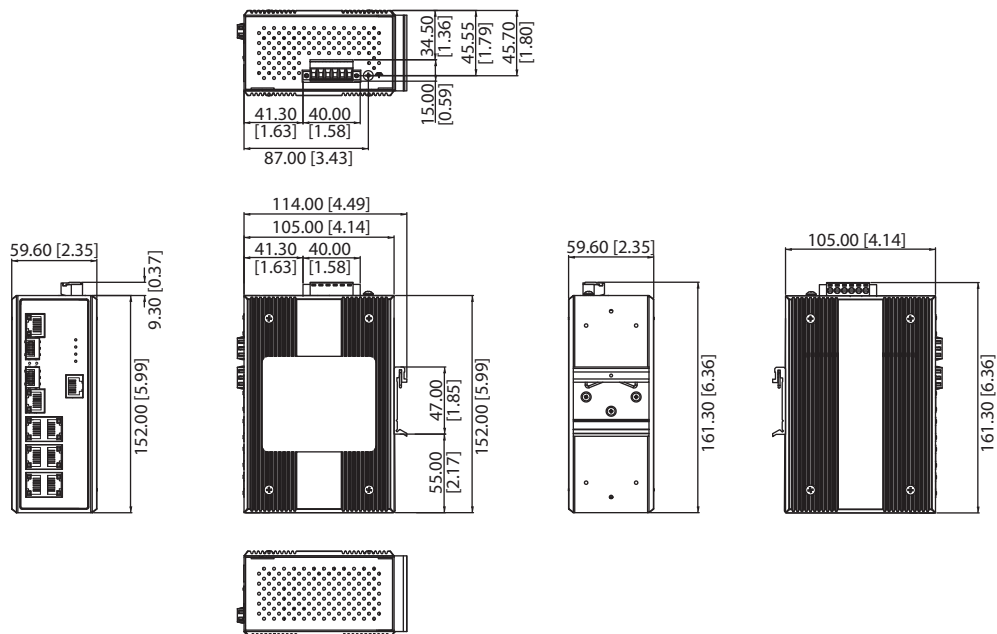- **Vibration** IEC 60068-2-6

Dimensions

Unit: mm [inch]

EKI-2748FI

34.50 [1.36]
45.55 [1.79]
45.70 [1.80]
15.00 [0.59]
41.30 [1.63] 40.00 [1.58]
87.00 [3.43]

59.60 [2.35]
9.30 [0.37]
152.00 [5.99]

114.00 [4.49]
105.00 [4.14]
41.30 [1.63] 40.00 [1.58]
47.00 [1.85]
55.00 [2.17]
152.00 [5.99]

59.60 [2.35]
161.30 [6.36]

105.00 [4.14]
161.30 [6.36]

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

EKI-2748CI

34.50 [1.36]
45.55 [1.79]
45.70 [1.80]
15.00 [0.59]
41.30 [1.63] 40.00 [1.58]
87.00 [3.43]

59.60 [2.35]
9.30 [0.37]
152.00 [5.99]

114.00 [4.49]
105.00 [4.14]
41.30 [1.63] 40.00 [1.58]
47.00 [1.85]
55.00 [2.17]
152.00 [5.99]

59.60 [2.35]
161.30 [6.36]

105.00 [4.14]
161.30 [6.36]

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