

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 (ultra high-speed recovery time < 10ms), 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
- 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, which provides users with an easy way to establish a redundant Ethernet network with ultra high-speed recovery time less than 10 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** RJ-45 x 4; SFP Combo: 100/1000 SFP *4 (EKI-2748FI)
RJ-45 x 6; SFP Combo: RJ-45 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 (RJ-45)

Network Management

- Configuration** SNMP v1/v2c/v3, Web, Telnet, CLI
- VLAN** IEEE 802.1Q, GVRP, Port-based VLAN
- Redundancy** Advantech X-Ring (Recovery time < 10ms at 30pcs full loading ring structure), Dual Homing, Couple Ring, IEEE802.1w/d RSTP/STP
- Security** IP Access security, port security, DHCP Server, Port and IP Binding, 802.1X Port Access Control
- Traffic Control** IGMP Snooping/Query for multicast group management Port Trunking, Static IEEE802.1p QoS/ CoS/ToS/DSCP priority queuing, IEEE802.3x flow control
- Diagnostics** Port Mirroring, Real-time traffic statistic, MAC Address Table, SNMP, 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
- Mounting** DIN-rail, Wall

Power

- Power Consumption** 15.12 Watts max. @ 12 V_{DC}
13.3 Watts max. @ 24V_{AC} / 60Hz
- Power Input** 12~ 48 V_{DC}, 24V_{AC} (18~30V_{AC})
- Fault Output** 1 Relay Output

Protection

- Power Reverse** 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)

Certifications

- Safety** UL 508, Class I, Division 2
- EMC** CE, FCC Class A, EN61000-3-2/3
IEC61000-4-2/3/4/5/6/8/11, EN61000-6-2/4
- Shock** IEC60068-2-27
- Freefall** IEC60068-2-32
- Vibration** IEC60068-2-6

Ordering Information

- EKI-2748FI** 4Gx+4SFP Managed Ethernet Switch w/ Wide Temp
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