EKI-2748FI
EKI-2748CI

4Gx+4SFP Managed Ethernet Switch with Wide Temperature

6Gx+2 Combo Managed Ethernet Switch with Wide Temperature

NEW

EKI-2748FI   EKI-2748CI

RoHS COMPLIANT 2002/95/EC   CE   FCC   c(UL)us LISTED E180881 I.T.E.

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
- 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: PWR, R.M., PWR1, PWR2, P-Fail
                         Gigabit Copper: Link/Activity, Speed
                         SFP: Link/Activity
- **Console**   RS-232 (RJ-45)

Network Management

- **Configuration**   Web browser, Telnet, Serial consloe, TFTP, SNMPv1/ v2c/v3, Port Speed/Duplex Configuration
- **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, 802.1w/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/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

Mechanism

- **Enclosure**   IP30, metal shell with solid mounting kits
- **Dimensions (W x H x D)** 152 x 59.6 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** -10 ~ 60° C (14 ~ 140° F)
- **Storage Temperature**   -40 ~ 85° C (-40 ~ 185° F)
- **Operating Humidity**   5 ~ 95% (non-condensing)
- **Storage Humidity**   0 ~ 95% (non-condensing)
- **MTBF**   248,507 hours

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

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