EKI-2548I

8Tx Managed Ethernet Switch with Wide Temperature

Features

- All Fast Ethernet ports for 8 Copper (EKI-2548I)
- Redundancy: Advantech X-Ring Pro, Dual Homing, Couple Ring, and RSTP/STP (802.1w/1d)
- Configuration: SNMP v1/v2c, Web
- Backplane (Switching Fabric): 1.6 Gbps
- Dual 12 ~ 48 V_{DC} power input and 1 relay output
- Supports wide operating temperature -40 ~ 75°C
- DIP switch for configure port alarm and enable Ring master

Introduction

EKI-2548I is a cost effective managed industrial Ethernet switch which supports Fast Ethernet. 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-2548I also supports advanced network standards to optimize network performance, reduce maintenance cost, and secure network safety.

Specifications

Communications

Standard	IEEE 802.3, 802.3u, 802.3x, 802.1d, 802.1w, 802.1p, 802.1Q
LAN	10/100Base-TX
Transmission Distance	Ethernet : Up to 100 m
Transmission Speed	Up to 100 Mbps

Interface

Connectors	8 x RJ45 ports
LED Indicators	System: PWR1, PWR2, P-Fail, R-Master
	Ethernet port: Link/Activity, Speed
	Fiber port: Link/Activity
Reset Button	Reset and restore to factory default

Network Management

Configuration	SNMP v1/v2c, Web
VLAN	IEEE 802.1Q, Port based VLAN
Redundancy	Advantech X-Ring Pro, Dual Homing, Couple Ring, IEEE 802.1d STP, and IEEE 802.1w RSTP
Security	IP access security
Traffic Control	IGMP Snooping/Query for multicast group management, rate limit and storm control
Diagnostics	Port Mirroring, SNTP, Syslog, SNMP Trap, Email Alert

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. 7.6 W
Power Input	12 ~ 48 V_{DC}, 24 V_{AC} (18 ~ 30 V_{AC})
Fault Output	1 Relay Output, 1A @ 24 V_{DC}

Protection

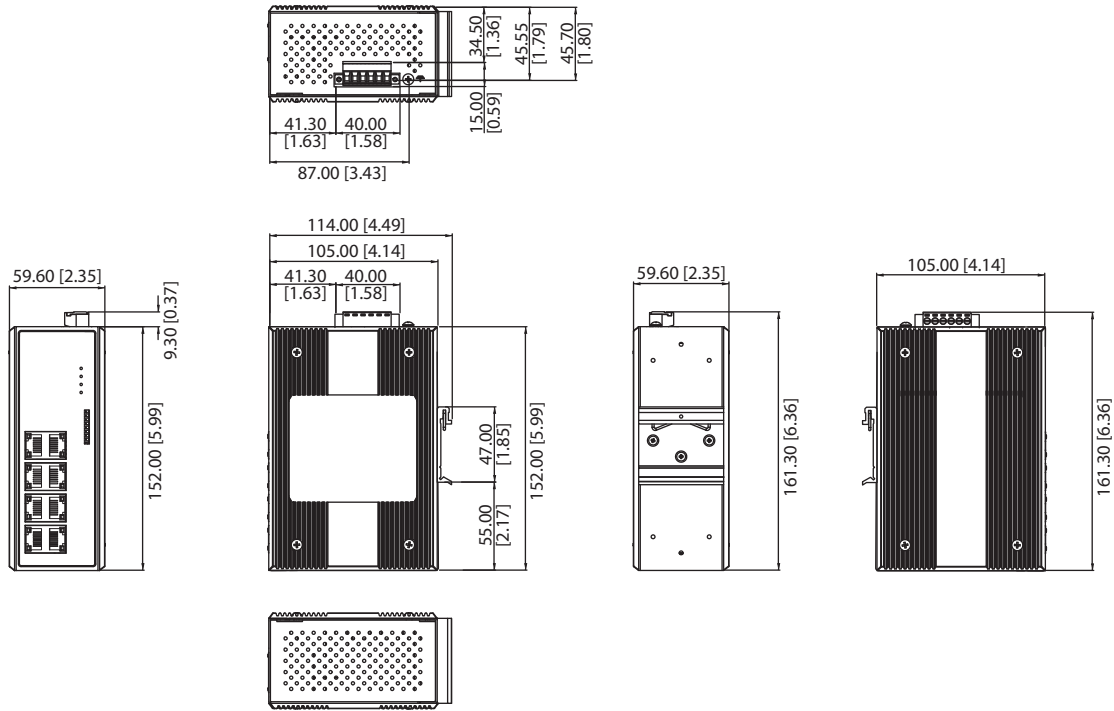|	
Power Reverse	Present
Overload Current	Present

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	215,266 hours

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]

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-2548I**   8Tx Managed Ethernet Switch w/Wide Temp

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