EKI-6558

8-port 10/100 Mbps Industrial Managed **Redundant Ethernet Switch**



Features

- Redundant Ethernet Ring (recovery time < 100 ms at 50 pcs full loading ring structure) and RSTP (IEEE 802.1W)
- IGMP Snooping for filtering multicast traffic from industrial Ethernet
- · Provides push button for port diagnostic
- Supports web browser and telnet/RS-232 console for configuration
- Supports IEEE 802.1Q VLAN and GVRP protocol to ease netwok planning
- Supports QoS -- IEEE 802.1p/1Q and TOS/DiffServ to increase determinism
- Supports SNMP V1 for network management security and Trap for automatic alarm and warning by utility or exception through email
- Supports 802.3ad link aggregation control protocol
- Provides 2-ch DI/O and power fail relay output for field event control
- Supports dual 10 ~ 48 V_{DC} power input, wide operating temperature . (0~60°C)

Introduction

For many industrial automation applications, redundancy helps increase the reliability of your system. To create reliability in your network, the EKI-6558 comes equipped with a proprietary redundant network protocol -- Smart Ring that was developed by Advantech, which provides users with an easy way to establish a redundant Ethernet network with ultra high-speed recovery time less than 30 ms. Furthermore, EKI-6558 also supports many advanced network standards to optimize network performance, ease maintenance issues, and secure network safety. With many additional industrial features such as dual wide power inputs (10 ~ 48 Vpc), a wide operating temperature (0 ~ 60° C) and a rugged, flexible design, the EKI-6558 is an ideal Ethernet solution for any industrial environment.

Specifications

Communications

•	Standard	IEEE 802.3, 802.3ad, 802.3u, 802.3x, 802.1p, 802.1Q, 802.1W.	
	LAN	10/100Base-TX	
•	I/О Туре	2 Digital Input -	Logic Level 0 : close to GND Logic Level 1 : open
		2 Digital Output -	Open collector to 30 V, 200 mA (Max.load)
•	Transmission Distance	Up to 100 m	
•	Transmission Speed	Up to 100 Mbps	
Interface			
•	Connectors	8 x RJ-45 (Ethernet) 7-pin removable screw terminal (power) 5-pin removable screw terminal (DI/O)	
•	LED Indicators	P1, P2, P-Fail, Fault, LINK, 10/100 Mbps	
•	Console	RS-232 (RJ-48)	
N	etwork Management		
•	Diagnostics	Push button for port diagnostic Port Mirroring Real-time traffic statistic	
•	VLAN	IEEE 802.1Q tagged VLAN Port-based VLAN	
•	Configuration	Web browser, Telnet/Serial console, Speed/duplex auto-negotiation	
•	Redundancy	ADVANTECH Smart Ring (recovery time < 100 ms at 50 pcs full loading ring structure), 802.1W/D RSTP/STP	
•	Security	MAC-based security per port	
•	Traffic Control	IGMP Snooping for multicast group management IEEE 802.3ad Link Aggregation Rate limit and storm control	
			SCP/TOS/CoS priority queuing

IEEE 802.3x flow control

Mechanism

- Enclosure IP30, ABS+PC with solid mounting kits
- Dimensions (W x H x D) 46 x 162 x 126 mm
- Mounting DIN 35 rail, wall

Power

 Power Consumption Max. 8 W Power Input 2 x Unregulated 10 ~ 48 V_{DC} Fault Output 1 Relay Output

Protection

 ESD (Ethernet) 4.000 Vpc Surge (EFT for power) $3,000 V_{DC}$ Power Reverse YES Overload 4 A/125 V Replaceable Fuse Environment • Operating Temperature 0 ~ 60° C (32 ~ 140° F) Storage Temperature -10 ~ 70° C (14 ~ 158° F) **Operating Humidity** 20 ~ 95% (non-condensing) 0 ~ 95% (non-condensing)

230,000 hours

- Storage Humidity
- MTBF

Certifications

- Safety EMC
- UL 60950-1, CAN/CSA-C22.2 No.60950 EU: EN55011, EN61000-6-4 EN55022 Class A. EN61000-3-2/3 FN55024 IEC61000-4-2/3/4/5/6/8/11 EN61000-6-2

Ordering Information

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