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EKI-5528-PNMA

8 Port Entry-Level Managed Switch Supporting PROFINET MRP Master

Features

- 8 ports Fast Ethernet RJ-45
- Entry-Level Managed Switch
- IXM function enables fast deployment
- Provides GSDML files
- Management: SNMP v1/v2c/v3, WEB, Standard MIB, Private MIB
- Supports Media Redundancy Protocol (MRP Master)

Introduction

The EKI-5528-PNMA is a new generation of entry-level managed switch products. They support media redundancy protocol master and meet the PROFINET real time standard. The devices come with a compact metal housing that is IP30 rated to protect against dusty industrial environments. The wide power input power (8.4 to 52.8 V_{DC}) is dedicated to operating in areas of unstable power and rugged environments.

Specifications

Communications

Standard	IEEE 802.3, 802.3u, 802.3x, 802.1D, 802.1w,802.1p, 802.1Q, 802.1X, 802.3AD,802.3az
LAN	10/100Base-T (X),
Transmission Distance	Ethernet: Up to 100 m
Transmission Speed Ethernet	10/100 Mbps Auto-Negotiation

Interface

I/O Port	8 x RJ-45
Power Connector	6-pin screw Terminal Block (including relay)

Physical

Enclosure	Metal Shell
Protection Class	IP 30
Installation	DIN-Rail
Dimensions (W x H x D)	43 x 120 x 84 mm

LED Display

System LED	PWR1, PWR2, P-Fail, Loop / Status
Port LED	Link / Speed / Activity

Environment

Operating Temperature	-10 ~ 60°C (14 ~ 140°F)
Storage Temperature	-40 ~ 85°C
Ambient Relative Humidity	10 ~ 95% (non-condensing)
Humidity	10 ~ 95% (non-condensing)
MTBF	4,176,861 hours

Power

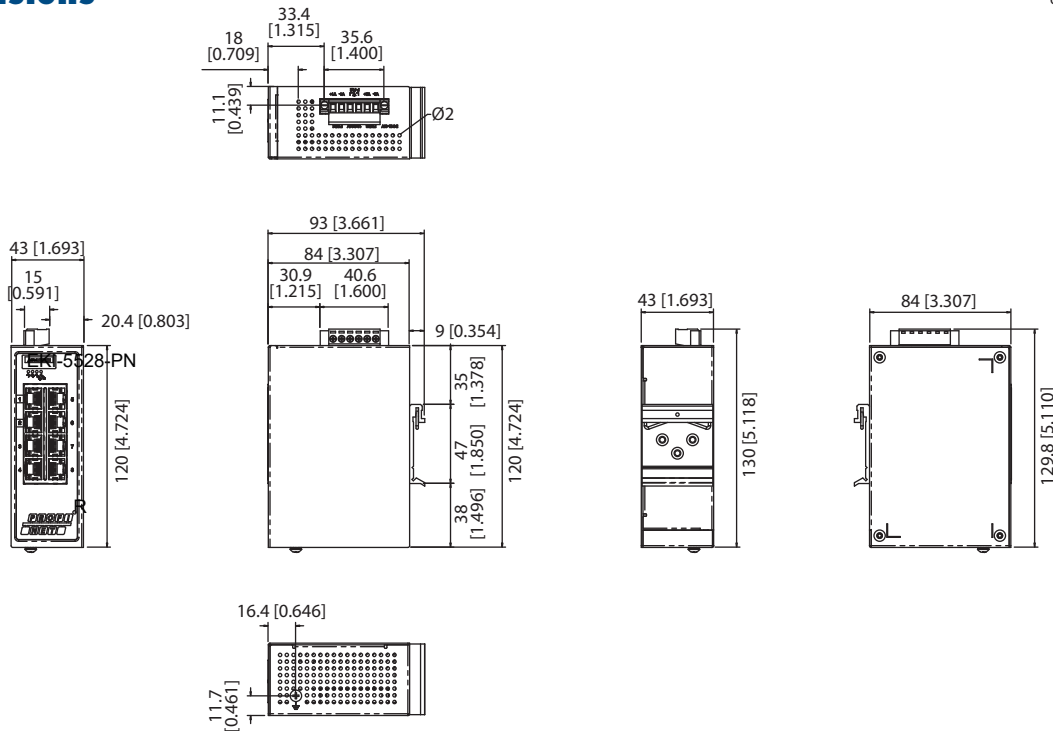|	
Power Consumption	Max. 5.2 W
Power Input	12 ~ 48 V_{DC} (8.4~52.8 V_{DC}), redundant dual power input
Fault Output	1 Relay Output

Certification

EMI	CE, FCC Class A
Safety	UL508, Class 1 Division 2, ATEX
EMC	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

L2 Features

L2 MAC Address	8K
Jumbo Frame	9216 Bytes
VLAN Group	256 (VLAN ID 1~4094)
VLAN Arrange	Port based VLAN, GVRP
Port Mirroring	Per port, Multi-source port,
IP Multicast	IGMP Snooping v1/v2/v3, MLD Snooping, IGMP Immediate leave
Storm Control	Broadcast, Multicast, Unknown unicast
Redundancy	IEEE 802.1D-STP, IEEE 802.1s-MSTP, IEEE 802.1w-RSTP, X-Ring, with ultra high-speed recovery time less than 20ms

Dimensions

Unit: mm [inch]

QoS

- **Priority Queue**
- **Scheduling** — WRR (Weighted Round Robin), SP (Strict Scheduling Priority) Hybrid Priority
- **Class of Service** — IEEE 802.1p Based CoS, IP TOS, DSCP based CoS
- **Rate Limiting** — Ingress Rate limit, Egress Rate limit
- **Link Aggregation** — IEEE 802.3ad Dynamic Port Trunking, Static Port Trunking

Security

- **Port Security** — Static, Dynamic, MAC address filtering
- **Authentication** — 802.1x (Port-Based, MD5/TLS/TTLS/PEAP Encryption)

Management

- **Access** — SNMP v1/v2c/v3, WEB, Standard MIB, Private MIB
- **Software upgrade** — TFTP, HTTP, Dual Image
- **NTP** — SNTP client
- **Data** — Syslog
- **Protocols** — IPV6, LLDP, PROFINET, Media Redundancy Protocol Master

Ordering Information

- **EKI-5528-PNMA-AE** — 8 port entry-level managed switch supports PROFINET MRP Master