EKI-5528-PNMA

8 Port Entry-Level Managed Switch Supporting PROFINET MRP Manager

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 Manager)

Introduction

The EKI-5528-PNMA is a new generation of entry-level managed switch products. They support media redundancy protocol Manager 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
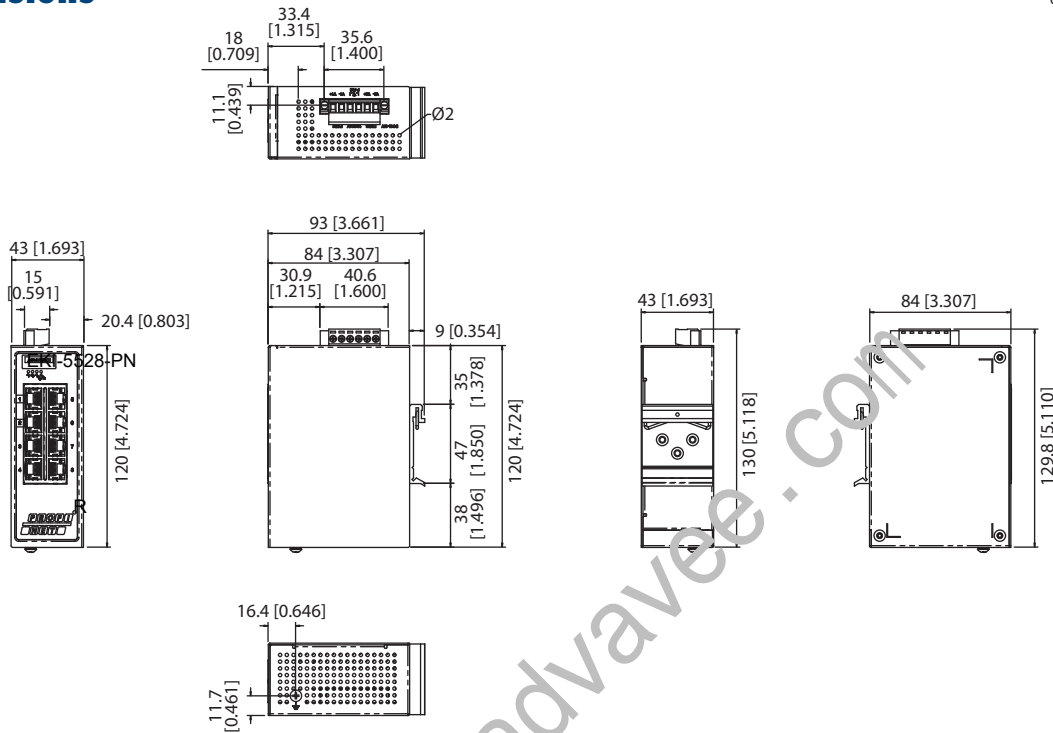- **Fault Output** 1 Relay Output

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

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All product specifications are subject to change without notice.   Last updated: 19-Jan-2023

Dimensions

Unit: mm [inch]

QoS

- **Priority Queue** — WRR (Weighted Round Robin), SP (Strict Scheduling
- **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 Manager

Ordering Information

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