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]
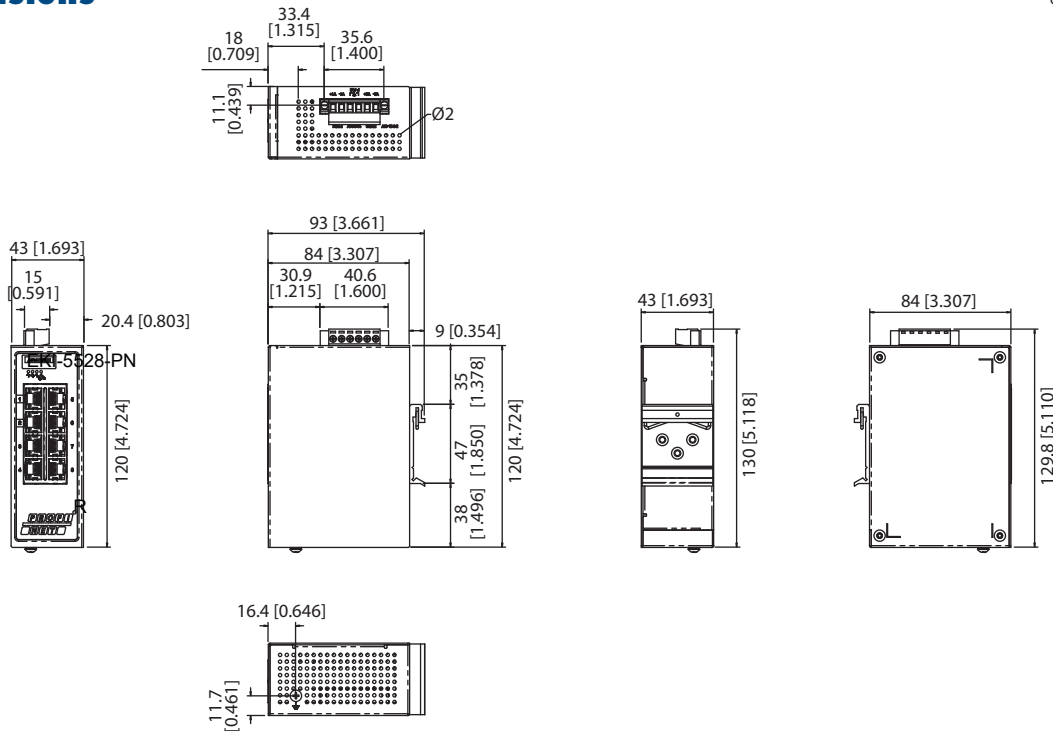
QoS

- **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