EKI-5528I-MB Series

8 port Entry-Level Managed Switch

Features

- Entry-Level Managed Switch
- Provides wide operating voltage 8.4~52.8 V_{DC}
- C1D2 and ATEX certified for horizontal area
- IXM function enables fast deployment
- PROFINET or EtherNet/IP or Modbus/TCP Enabled by default
- Supports X-Ring for ultra high-speed recovery time less than 20ms

Introduction

Advantech's Entry Level Managed Switches Series are the best deal offer for your Ethernet connections. Advantech's Entry Level Managed Switches Series support the most useful management functions, such as IEEE 802.1Q VLAN, port mirroring, Redundancy, Storm Control, IP Multicast, and provide SNMP v1/v2c, WEB GUI, Standard MIB, Private MIB for access. Advantech's Entry Level Managed Switches Series are also easy and fast deployment from Advantech IXM technology and is compatible with EKI-7700 managed switch series. Advantech's Entry Level Managed Switches Series allow users to expand their industrial network quickly and efficiently, while their rugged industrial-grade design assures reliability and stability.

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 RJ45
- **Power Connector**: 6-pin screw Terminal Block (including relay)

LED Indicators

- **System LED**: PWR1, PWR2, P-Fail, Loop detection
- **Port LED**: Link / Speed / Activity

Switch Properties

- **MAC Table Size**: 8K
- **Packet Buffer Size**: 4.1 Mbit
- **Switch Capacity**: 1.6Gbps
- **Jumbo Frame**: 9216 Bytes

Physical

- **Enclosure**: Metal Shell
- **Protection Class**: IP 30
- **Installation**: DIN-Rail
- **Dimensions (W x H x D)**: 43 x 120 x 84 mm
- **Weight**: 0.6kg

Environment

- **Operating Temperature**: EKI-5528-PNMA: -10 ~ 60°C (14 ~ 140°F)
  EKI-5528I-EI/MB/PN: -40 ~ 75°C (-40 ~ 167°F)
- **Storage Temperature**: -40 ~ 85°C
- **Humidity**: 10 ~ 95% (non-condensing)
- **MTBF**: 4,176,861 hours

Power

- **Power Consumption**: 5.2 W
- **Power Input**: 12 ~ 48 V_{DC}, redundant dual power input
- **Operating Voltage**: 8.4~52.8V_{DC}
- **Overload Current Protection**: Present
- **Revise Polarity Protection**: Present

Certification

- **EMI**: CE, FCC Class A
- **Safety**: UL508
- **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
- **Hazardous Location**: Class 1 Division 2, ATEX

L2 Features

- **VLAN Group**: 256 (VLAN ID 1 ~ 4094)
- **VLAN Arrange**: Tag 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 802.1w-RSTP, X-Ring Elite, with ultra highspeed recovery time less than 20ms

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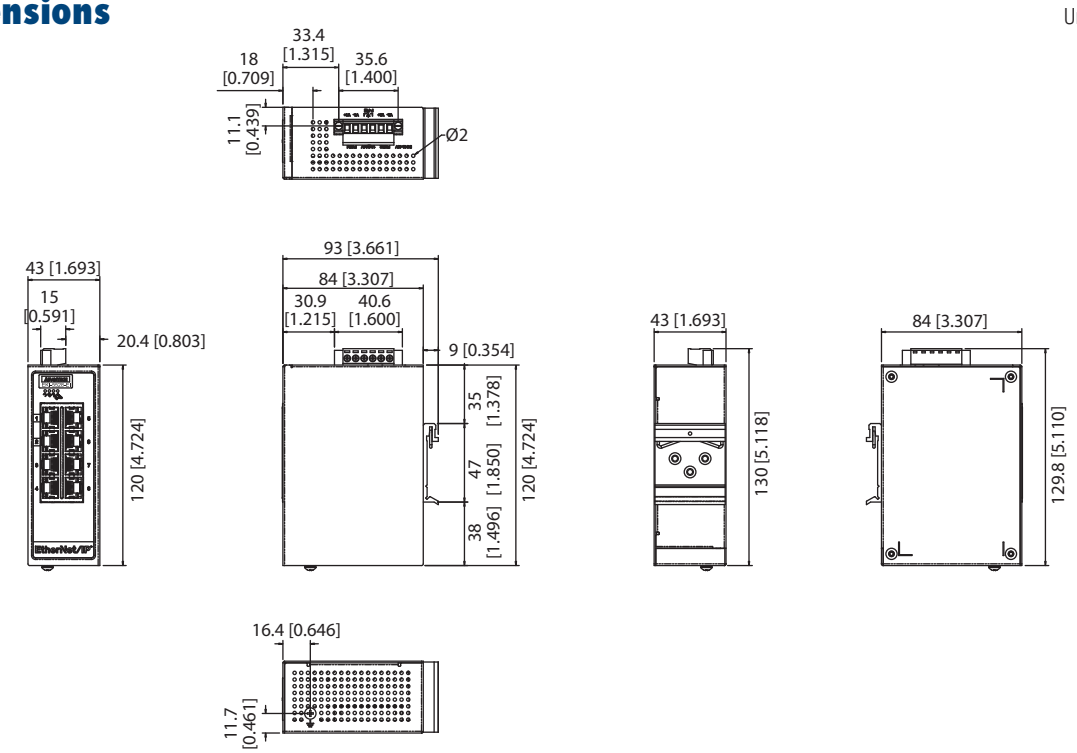
Dimensions

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/PEAP Encryption)

Management

- **DHCP** — Client, Option 82
- **Access** — SNMP v1/v2c, WEB, Standard MIB, Private MIB
- **Software upgrade** — TFTP, HTTP, Dual Image
- **NTP** — SNTP client
- **Data** — Syslog
- **Protocols** — IPV6, LLDP, EtherNet/IP (EKI-5528I-EI), Modbus/TCP (EKI-5528I-MB), PROFINET (EKI-5528I-PN), Media Redundancy Protocol (EKI-5528I-PN) Media Redundancy Protocol Master (EKI-5528I-PNMA)

Ordering Information

- **EKI-5528I-MB-AE** — 8 port Entry-Level Managed Switch Supporting Modbus/TCP w/wide temp.
- **EKI-5528I-EI-AE** — 8 port entry-level managed switch support EtherNet/IP w/wide temp.
- **EKI-5528I-PN-AE** — 8 port Entry-Level Managed Switch Supporting PROFINET w/wide temp.
- **EKI-5528I-PNMA-AE** — 8 port Entry-Level Managed Switch Supporting PROFINET MRP Master