

EKI-5728I-MB

8 port Entry-Level Managed Switch



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, 802.3ab
- **LAN** 10/100/1000Base-T (X), Ethernet: Up to 100 m
- **Transmission Distance** Ethernet: Up to 100 m
- **Transmission Speed Ethernet** 10/100/1000 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

Features

- Entry-Level Managed Switch
- Provides wide operating voltage 8.4~52.8 VDC
- C1D2 and ATEX certified for horizontal area
- IXM function enables fast deployment
- Support PROFINET and Modbus/TCP (protocol switching can be performed via WebGUI)
- Supports X-Ring for ultra high-speed recovery time less than 20ms

Environment

- **Operating Temperature** -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
- **Reverse Polarity Protection** Present

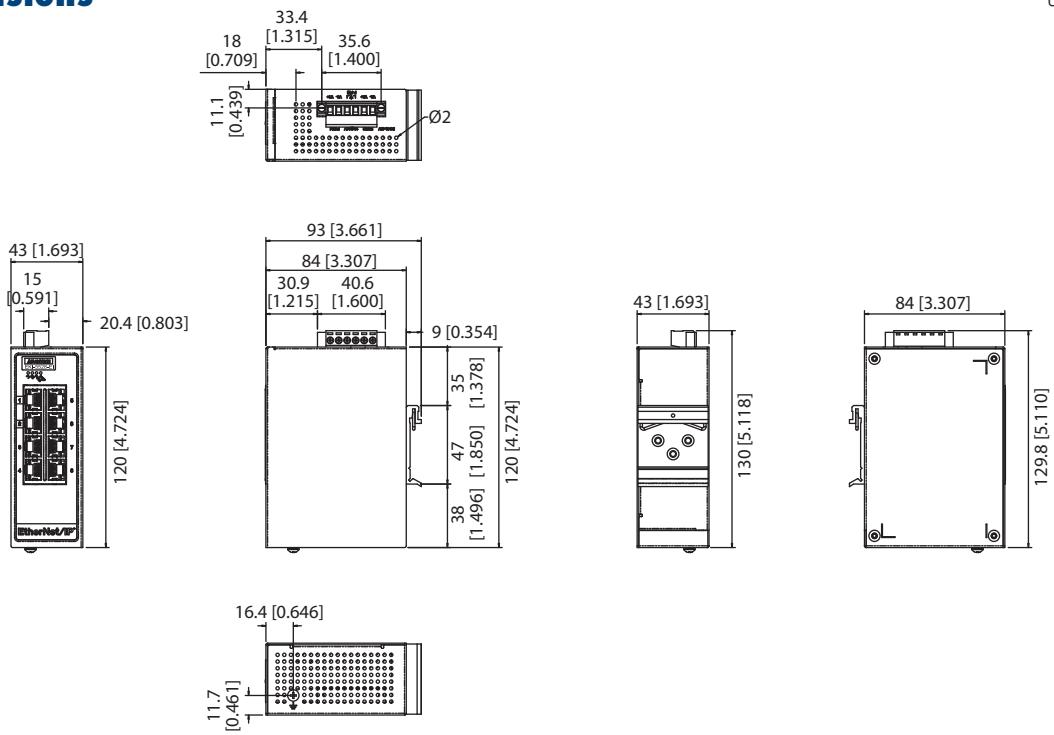
Certification

- **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** Port based VLAN, GVRP
- **Port Mirroring** Per port, Multi-source port, IGMP Snooping v1/v2/v3, MLD Snooping, IGMP Immediate leave
- **IP Multicast** Broadcast, Multicast, Unknown unicast
- **Storm Control** IEEE 802.1D-STP, IEEE 802.1w-RSTP, XRing Elite, with ultra highspeed recovery time less than 20ms
- **Redundancy**

Dimensions



QoS

- **Priority Queue Scheduling**
- **Class of Service**
- **Rate Limiting**
- **Link Aggregation**

WRR (Weighted Round Robin),
 SP (Strict Scheduling Priority) Hybrid Priority
 IEEE 802.1p Based CoS, IP TOS, DSCP based
 CoS
 Ingress Rate limit, Egress Rate limit
 IEEE 802.3ad Dynamic Port Trunking, Static
 Port Trunking

Security

- **Port Security**
- **Authentication**

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

Management

- **DHCP**
- **Access**
- **Software upgrade**
- **NTP**
- **Data**
- **Protocols**

Client, Option 82
 SNMP v1/v2c/v3, WEB, Standard MIB, Private
 MIB
 TFTP, HTTP, Dual Image
 SNTP client
 Syslog
 Modbus/TCP,
 PROFINET,
 EtherNet/IP (compliant with)

Ordering Information

- **EKI-5728I-MB-AE**

8 port Entry-Level Managed Switch Supporting
 PROFINET and Modbus/TCP w/wide temp.