EKI-5729FI-MB

8-Port+2 SFP 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
- 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.

吴生 研伟科技 15323766001

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-TX, optional 100BASE-FX, 1000BASE-SX/LX/LHX/XD/ZX/EZX
- **Transmission Distance** Ethernet: UP to 100 m (4-wire Cat.5e, Cat.6 RJ-45 cable suggested for Gigabit port)
  SFP: UP to 110 km (depends on SFP)
- **Transmission Speed** Ethernet: 10/100/1000 Mbps Auto-Negotiation
  Gigabit Copper: 10/100/1000 Mbps, Auto-Negotiation
  Gigabit Fiber: UP to 1000 Mbps

Interface

- **Connectors** 8 x RJ45
  2 x SFP ports
  6-pin removable screw terminal (power & relay)
- **LED Indicators** P1, P2, P-Fail, Loop detection
  10/100/1000T(X): Link/Activity, Speed
  SFP: Link/Activity

Switch Properties

- **MAC Table Size** 8K
- **Packet Buffer Size** 4.1M bit
- **Switching Capacity** 20 Gbps
- **Jumbo Frame** 9216 bytes

Power

- **Power Consumption** Max. 6.8 W
- **Power Input** 12 ~ 48 V_{DC} (8.4 ~ 52.8 V_{DC}), redundant dual inputs
- **Fault Output** 1 Relay Output

Mechanism

- **Dimensions (W x H x D)** 43 x 120 x 84 mm
- **Enclosure** IP30, metal shell with solid mounting kits
- **Mounting** DIN-Rail, Wall

Protection

- **Reverse Polarity** Present
- **Overload Current** Present

Environment

- **Operating Temperature** -40 ~ 75°C (-40 ~ 167°F)
- **Storage Temperature** -40 ~ 85°C (-40 ~ 185°F)
- **Operating Humidity** 10 ~ 95% (non-condensing)
- **Storage Humidity** 10 ~ 95% (non-condensing)
- **MTBF** 3,858,286 hours

Certification

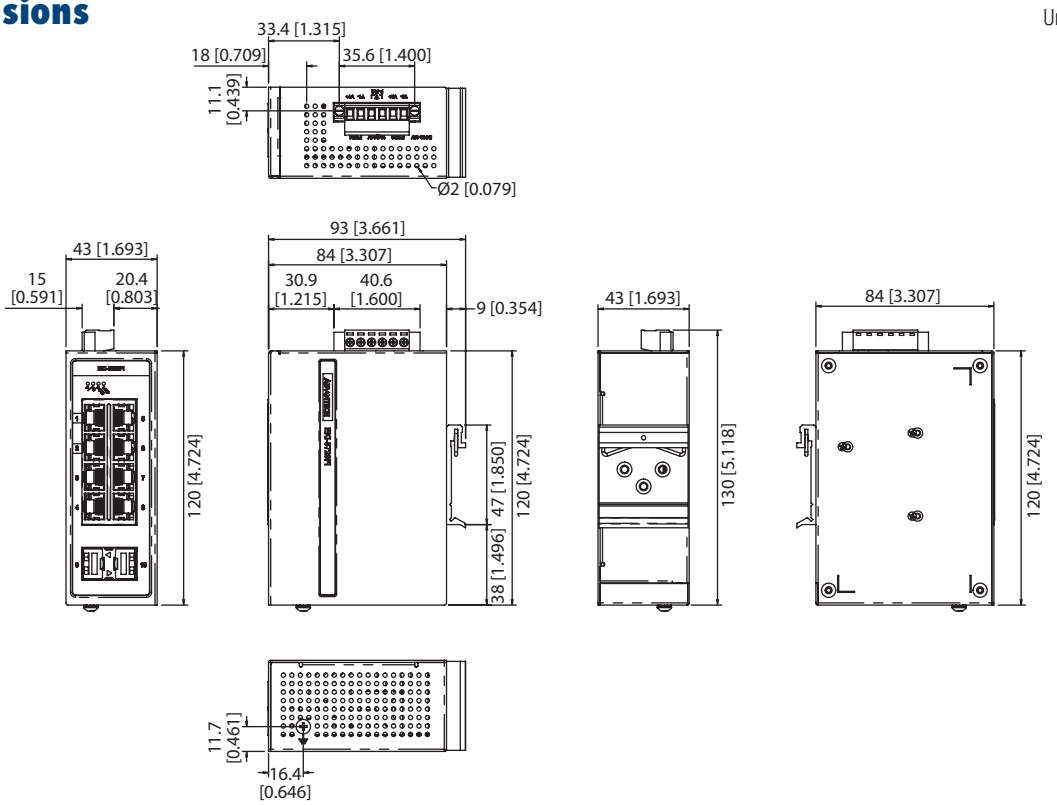
- **EMI** CE, FCC Class A
- **Safety** UL508
- **EMC** EN 61000-4-2; EN 61000-4-3; EN 61000-4-4; EN 61000-4-5; EN 61000-4-6; EN 61000-4-8
- **Shock** IEC 60068-2-27
- **Freefall** IEC 60068-2-32
- **Vibration** IEC 60068-2-6
- **Hazardous Location** Class 1 Division 2, ATEX

L2 Features

- **VLAN Group** 256 (VLAN ID 1 ~ 4094)
- **VLAN Arrange** Port based VLAN, GVRP
- **Port Mirroring** Per port, Multi-source port,
- **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, XRing Elite, with ultra highspeed 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

- **DHCP** — Client, Option 82
- **Access** — SNMP v1/v2c/v3, WEB, Standard MIB, Private MIB
- **Software upgrade** — TFTP, HTTP, Dual Image
- **NTP** — SNTP client
- **Data** — Syslog
- **Protocols** — Modbus/TCP

Ordering Information

- **EKI-5729FI-MB** — 8-Port+2 SFP Entry-Level Managed Switch Supporting Modbus/TCP w/wide temp