EKI-5526I-PN Series

16 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	16 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	3.2Gbps
Jumbo Frame	9216 Bytes

Physical

Enclosure	Metal Shell
Protection Class	IP 30
Installation	DIN-Rail
Dimensions (W x H x D)	74 x 120 x 84 mm
Weight	0.8kg

Environment

Operating Temperature	-40 ~ 75°C (-40 ~ 167°F)
Storage Temperature	-40 ~ 85°C
Humidity	10 ~ 95% (non-condensing)
MTBF	2,788,343 hours

Power

Power Consumption	8W
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

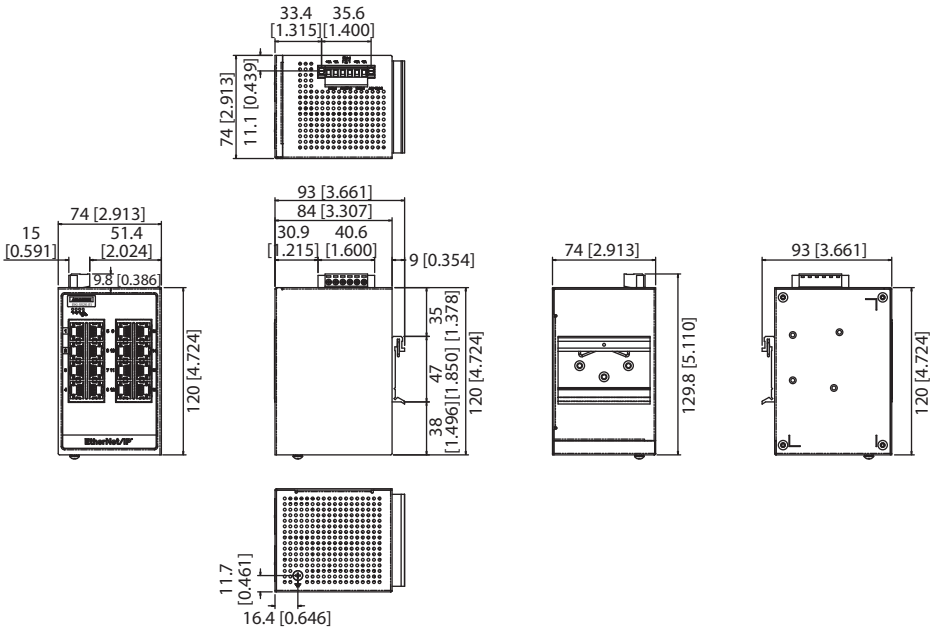
VLAN Group	256 (VLAN ID 1 ~ 4094)
VLAN Arrange	Tag based VLAN, GVRP
Port Mirroring	Per port, Multi-source port,
IP Multicast	IGMP Snooping v1/v2/v3, MLD Snooping, IGMP Immediate leave
Storm Control	Broadcast, Multicast, Unknown unicast
Redundancy	IEEE 802.1D-STP, IEEE 802.1w-RSTP, X-Ring Elite, with ultra high-speed recovery time less than 20ms

All product specifications are subject to change without notice.

Last updated: 1-Dec-2020

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-5526I-EI),
  Modbus/TCP (EKI-5526I-MB),
  PROFINET (EKI-5526I-PN),
  Media Redundancy Protocol (EKI-5526I-PN)

Ordering Information

- **EKI-5526I-EI-AE** — 16 port entry-level managed switch support EtherNet/IP w/wide temp.
- **EKI-5526I-PN-AE** — 16 port Entry-Level Managed Switch Supporting PROFINET
- **EKI-5526I-MB-AE** — 16 port Entry-Level Managed Switch Supporting Modbus/TCP