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), 10/100/1000Base-T (X)
- Transmission Distance
  Ethernet: Up to 100 m
- Transmission Speed Ethernet
  10/100 Mbps Auto-Negotiation

Interface
- I/O Port
  16 x RJ-45 + 2 x RJ-45/SFP combo ports
- 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
  TBD
- Switch Capacity
  7.2Gbps
- 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

Features
- 16 Fast Ethernet ports + 2 Gigabit Copper/SFP combo ports 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
- PROFINET or EtherNet/IP or Modbus/TCP Enabled by default
- 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
  2,825,281 hours

Power
- Power Consumption
  8.2W
- Power Input
  12 – 48 VDC, redundant dual power input
- Operating Voltage
  8.4–52.8 VDC
- 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 61000-4-8
- 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
**Dimensions**

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<tr>
<th>Dimension</th>
<th>Unit: mm [inch]</th>
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</tbody>
</table>

**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-5626CI-EI), Modbus/TCP (EKI-5626CI-MB), PROFINET (EKI-5626CI-PN), Media Redundancy Protocol (EKI-5528I-PN)

**Ordering Information**
- EKI-5626CI-EI-AE: 16FE + 2G Combo ports port entry-level managed switch support EtherNet/IP w/ wide temp.
- EKI-5626CI-PN-AE: 16FE + 2G Combo ports port Entry-Level Managed Switch Supporting PROFINET
- EKI-5626CI-MB-AE: 16FE + 2G Combo ports port Entry-Level Managed Switch Supporting Modbus/TCP