

EKI-7528-4XF24T

EKI-7528-4XF24F

Industrial L2 Managed Switch with 4x10G SFP+

Preliminary



EKI-7528-4XF24T ▲

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Features

- 24 x Gigabit RJ-45/SFP ports + 4 x 10GbE SFP ports
- Comprehensive Layer 2 Features: Supports VLAN, STP/RSTP, Port Trunking, and IGMP Snooping
- Redundancy: X-Ring Pro (< 20ms @250units), X-Chain
- Efficient Deployment: IXM function enables rapid and simplified network setup
- Enhanced Security: Includes 802.1x, HTTPS, SSH, SNMPv3, and a Security Pack to protect against both internal and external cyber threats
- Management: SNMP v1/v2c/v3, WEB, Telnet, standard MIB, private MIB
- Wide operating temperature range of -40~85°C
- Redundant 110/220VAC power inputs

Introduction

The EKI-7528 series is an industrial-grade, fully managed Layer 2 switch featuring 24 Gigabit Ethernet ports and 4 10-Gigabit SFP ports. Designed for rack-mount installation, it is ideal for deployment in harsh industrial environments and supports a wide range of applications—from edge to core in industrial networks.

The switch integrates advanced Layer 2 switching software optimized for scalability and performance, delivering wire-speed throughput up to 128 Gbps across all ports for seamless Layer 2 traffic forwarding. It is built for high reliability, with a wide operating temperature range of -40 to 85°C, and features dual 100–240 V_{AC} power inputs to ensure continuous operation and minimize downtime. Additionally, the switch comes with Advantech's IXM technology, enabling rapid deployment and significantly reducing setup time and engineering effort.

Specifications

Interface

- **Ethernet port** 3 x 8 port module slots*
- **Console port** RJ45 (RS-232)
- **Relay output** 2-pin Terminal Block
- **USB port** Type A

*Please refer to accessory list for detail of interface modules

LED Display

- **System LEDs** PWR1, PWR2, SYS, R.M., Alarm
- **Port LED** Link Speed, link/ Act

Switch Properties

- **DRAM** 256MB
- **Flash** 64MB
- **Max. IGMP Group** 1024
- **Max static VLANs** 256
- **VLAN ID range** 1-4094
- **MAC table** 16K
- **Jumbo frame** 12KB
- **Packet Buffer** 12Mbits
- **Max Priority Queues** 8

Physical

- **Enclosure** Metal shell and die-casting
- **Protection Class** IP 30
- **Installation** 1U 19" Rackmount
- **Dimensions (W x H x D)** 438 x 44 x 363.5mm (17.24" x 1.73" x 14.31")
- **Weight** 5.2

Environment

- **Operating Temperature** -40~85°C with 24xGigabit + 4x10G SFP+ port operation (under full Gigabit Ethernet operation)
-40~75°C with 24xGigabit + 4x10G SFP+ port operation (under 24 x GbE + 4 x 10G operation)
- **Storage Temperature** -40 ~ 85°C (-40 ~ 185°F)
- **Operating Humidity** 55°C/95% RH (non-condensing)
- **Storage Humidity** 70°C/95% RH (non-condensing)

Power

- **System Power Consumption** 60 Watts (Max)TBC
- **Input Voltage** 110/220V_{AC}, 50/60Hz
- **Over current Protection** Supported
- **Reverse Polarity Protection** Supported

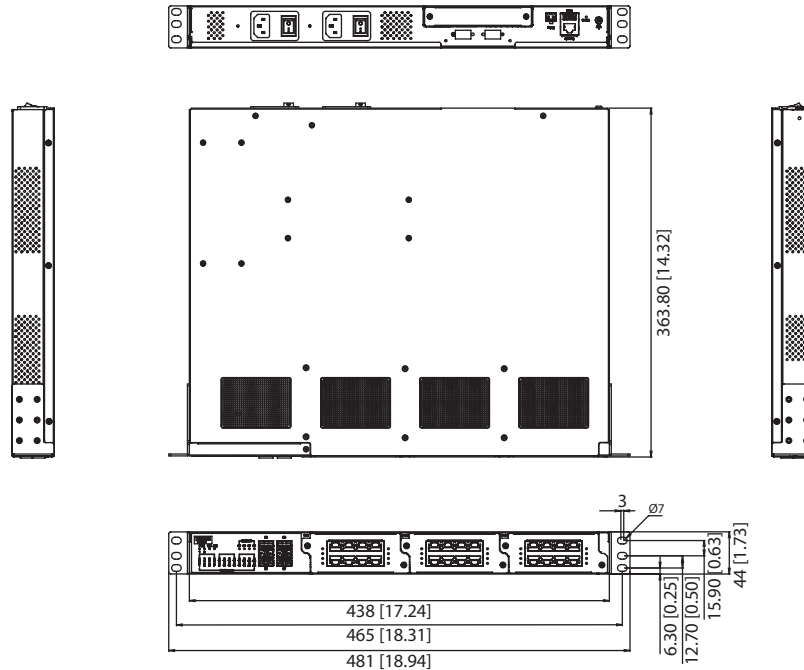
*Please refer to accessory list for detail of power inputs

Switch Standards

- IEEE 802.3 for 10BaseT
- IEEE 802.3u for 100BaseT(X) and 100BaseFX
- IEEE 802.3ab for 1000BaseT(X)
- IEEE 802.3z for 1000BaseSX/LX/LHX/ZX
- IEEE802.3ae for 10GBase over Fiber
- IEEE 802.3x for flow control
- IEEE 802.1D-2004 for Spanning Tree Protocol
- IEEE 802.1w for Rapid Spanning Tree Protocol
- IEEE 802.1s for Multiple Spanning Tree Protocol
- IEEE 802.1p for Class of Service
- IEEE 802.1Q for VLAN Tagging
- IEEE 802.1X for authentication
- IEEE 802.3ad for Port Trunk with LACP

Dimensions

Unit: mm [inch]



Outline Dimension (W x H x D): 438 x 44 x 363.8 mm [17.24" x 1.73" x 14.32"]

Certification

- **Safety** EN62368
- **EMI** CISPR 22, 32, FCC Part 15B Class A
- **EMS** EN61000-4-2 (ESD); EN61000-4-3 (RS); EN61000-4-4 (EFT); EN61000-4-5 (Surge); EN61000-4-6 (CS); EN61000-4-6(CS), EN-61000-4-8 (PFMF)
- **Shock** IEC60068-2-27
- **Freefall** IEC60068-2-32
- **Vibration** IEC60068-2-6
- **Power plant** IEC61850-3, IEEE1613

L2 Features

- **Link Aggregate** Static Trunk, 802.3ad LACP
- **VLAN** IEEE 802.1Q, GVRP, Port-based VLAN
- **Port Mirroring** Per port, Multi-source port
- **IP Multicast** IGMP Snooping v1/v2/v3, MLD Snooping
- **Redundancy** IEEE 802.1D-STP, IEEE 802.1w-RSTP, IEEE 802.1s-MSTP, Advantech X-Ring

QoS

- **Priority Queue** Scheduling WRR (Weighted Round Robin), SP (Strict Priority)
- **Class of Service** IEEE 802.1p based CoS, IP TOS, DSCP, Port priority

Security

- **Loop detection** Port-based detection/ prevention
- **Storm Control** Broadcast, Unknown Multicast, Unknown unicast
- **Port Security** Static MAC, MAC Violation Notice
- **Authentication** 802.1x, RADIUS
- **Account Manager** Multiple Account
- **ACL** L2, L3 Access Control List, Permit/Deny/Redirect

Management

- **Config & Access** IPv4/ IPv6, SNMP v1/v2c/v3, WEB GUI, Telnet, SSH, SSL, Standard MIB, Private MIB
- **Upgrade/ Backup** TFTP, HTTP, Firmware Dual Image
- **Others** SNTP/NTP client, DNS client, Syslog

Ordering Information

- **EKI-7528G-4XF24T-A** 24G + 4 10G SFP+ L2 Managed Switch
- **EKI-7528G-4XF24F-A** 24G SFP + 4 10G SFP+ L2 Managed Switch