EKI-7428G-4FA

24GE+4G SFP Port L2 Managed Switch with AC Input

Features

- 24 x Gigabit copper ports + 4 x Gigabit SFP ports
- SFP socket for easy and flexible fiber expansion
- Management: SNMP v1/v2c/v3, WEB, Telnet, standard MIB
- IXM function enables fast deployment
- Security: 802.1x (port-based, MD5/TLS/TTLS/PEAP encryption), HTTPS, SSH, and SNMPv3
- Redundancy: Gigabit X-Ring Pro (ultra-high-speed recovery time, <20 ms), RSTP/STP (802.1w/1D), MSTP
- 100~240 V$_{AC}$ power input

Introduction

The EKI-7428G-4FA is an industrial-class L2 full managed switch with 24 Gigabit ports and 4 Gigabit SFP ports. It is designed for rackmount installation and can be deployed in demanding industrial environments. It is suitable for edge-to-core industrial networks and integrates L2 switching software, which is optimized for scale and performance, delivering wire speeds up to 56 Gbps across all ports for L2 traffic forwarding.

Specifications

Communications

- **Standard**: IEEE 802.3, 802.3u, 802.3x, 802.3z, 802.1D, 802.1w, 802.1p, 802.1Q, 802.1X, 802.3ad, 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 RJ45 cable suggested for Gigabit port) SFP: Up to 110 km (depends on SFP)
- **Transmission Speed**: Gigabit Copper: 10/100/1000 Mbps, Auto-Negotiation Gigabit Fiber: Up to 1000 Mbps

Interface

- **Connectors**: 24 x RJ45 (Ethernet) 4 x RJ45/SFP (mini-GBIC) ports
- **LED Indicators**: 10/100T (X): Link/Activity, Duplex/Collision Gigabit Copper: Link/Activity, Speed (1000 Mbps) SFP: Link/Activity
- **Console**: RS-232 (RJ45)

Network Management

- **Configuration**: Web browser, Telnet, Serial console, TFTP, SNMPv1/v2c/v3, Port Speed/Duplex Configuration, IPv6
- **VLAN**: IEEE 802.1Q, GVRP, Port-based VLAN
- **Redundancy**: Advantech X-Ring, 802.1w/D RSTP/STP
- **Security**: IP Access security, port security, DHCP client, Port and IP Binding, 802.1X Port Access Control,
- **Traffic Control**: IGMP Snooping/Query for multicast group management, Port Trunking, Static/802.3ad, LACP Rate limit and storm control, IEEE 802.1p QoS CoS/TOS/DSCP priority queuing, IEEE 802.3x flow control
- **Diagnostics**: Port Mirroring, Real-time traffic statistic, MAC Address Table, SNTP, Syslog, E-Mail Alert, SNMP Trap, RMON

Mechanism

- **Enclosure**: Metal shell with solid mounting kits
- **Dimensions (W x H x D)**: 442 x 44 x 211.1 mm (17.4" x 1.73" x 8.31")
- **Mounting**: 1U 19" Rack mount

Power

- **Power Consumption**: 18W
- **Power Input**: 100~240V single AC power input

Protection

- **Power Reverse**: Present
- **Overload Current**: Present

Environment

- **Operating Temperature**: 0 ~ 55°C (32 ~ 131°F)
- **Storage Temperature**: -20 ~ 70°C (-4 ~ 158°F)
- **Operating Humidity**: 10 ~ 95% (non-condensing)
- **Storage Humidity**: 10 ~ 95% (non-condensing)
- **MTBF**: 620,427 hours

Certification

- **EMI**: CE FCC Class A
- **EMS**: 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

Dimensions

Unit: mm [inch]

211.1 [8.31]

44.0 [1.73]

442.0 [17.40]
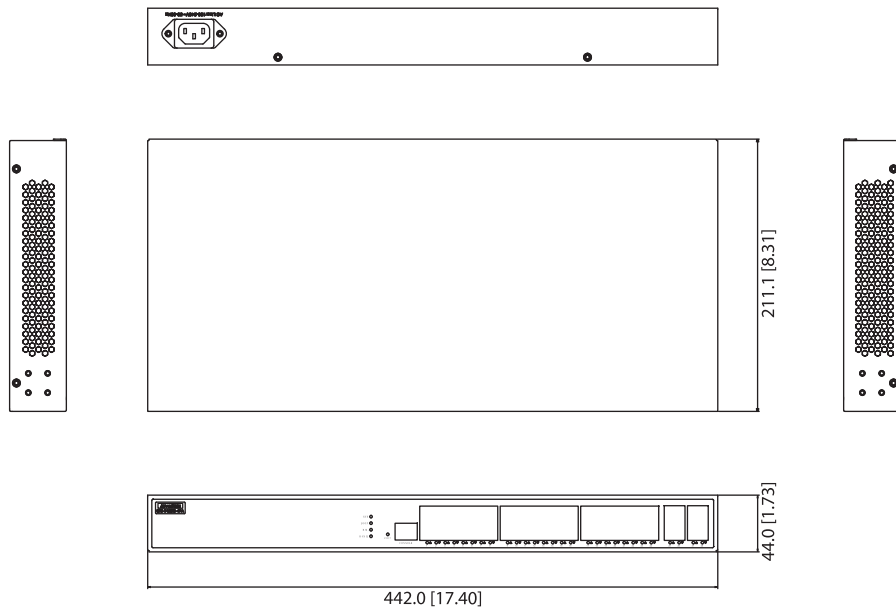
Ordering Information

▪ **EKI-7428G-4FA-AE**   24GE+4G SFP Port Managed Ethernet Switch