

# EKI-7428G-20FA

## 20GE SFP + 8G Port L2 Managed Switch with AC Input



### Features

- 20 x Gigabit SFP ports + 8 x Gigabit copper 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<sub>AC</sub> power input
- Operating temperature range of 0 ~ 55°C

### Introduction

The EKI-7428G-20FA is an industrial-class L2 full managed switch with 20 Gigabit SFP ports and 8 Gigabit 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 L 2 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** 8 x RJ45 (Ethernet)  
20 x SFP (mini-GBIC) ports
- **LED Indicators** 10/100/1000T (X): Link/Activity, Duplex/Collision  
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, SNMP, 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** 38W
- **Power Input** 100–240V single AC power input

#### Protection

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

#### Environment

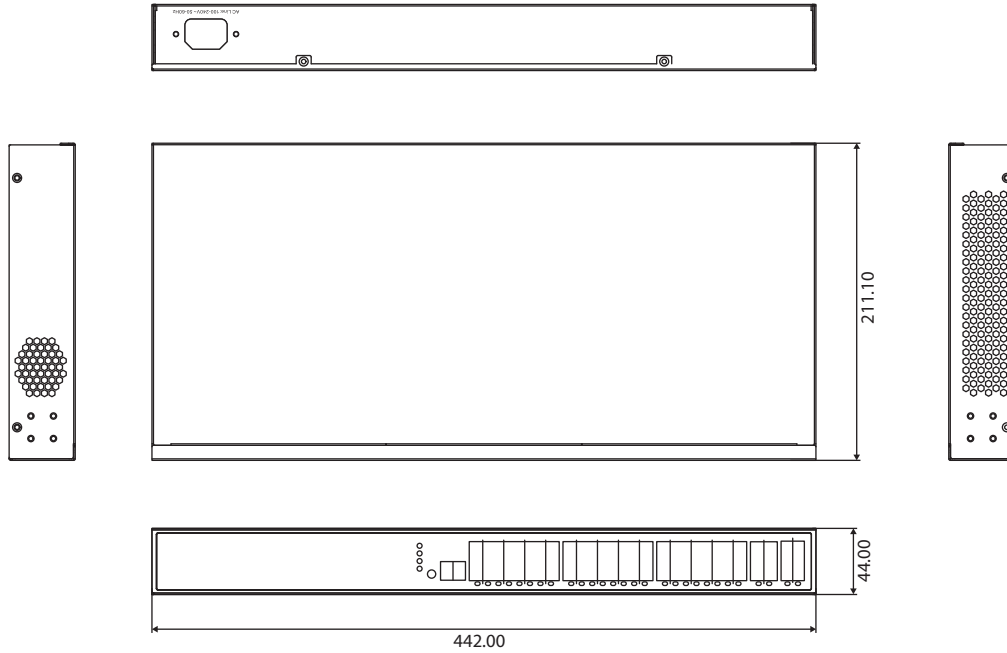
- **Operating Temperature** 0 ~ 55°C (32 ~ 131°F)
- **Storage Temperature** -20 ~ 70°C (-4 ~ 158°F)
- **Operating Humidity** 5 ~ 90% (non-condensing)
- **Storage Humidity** 5 ~ 90% (non-condensing)
- **MTBF** 363,619 hours

#### 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]



## Ordering Information

- EKI-7428G-20FA-AE 20G SFP Port+8GE Managed Ethernet Switch