EKI-7428G-20FA

20GE SFP + 8G Port L2 Managed Switch w/ 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
- 100~240V AC power input
- 0 ~ 55°C operating temperature

Introduction

The EKI-7428G-20FA is an industrial-class layer 2 full managed switch including 20 Gigabit SFP ports and 8 Gigabit ports. It is designed for rack-mount installation, and can be deployed in demanding industrial environments. It is suitable for edge to core industrial networks. It integrates Layer 2 switching software, which is optimized for scale and performance, delivering wire speed across all ports up to 56 Gbps for layer 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-T (X), 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, 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**: 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]

211.10

44.00

442.00
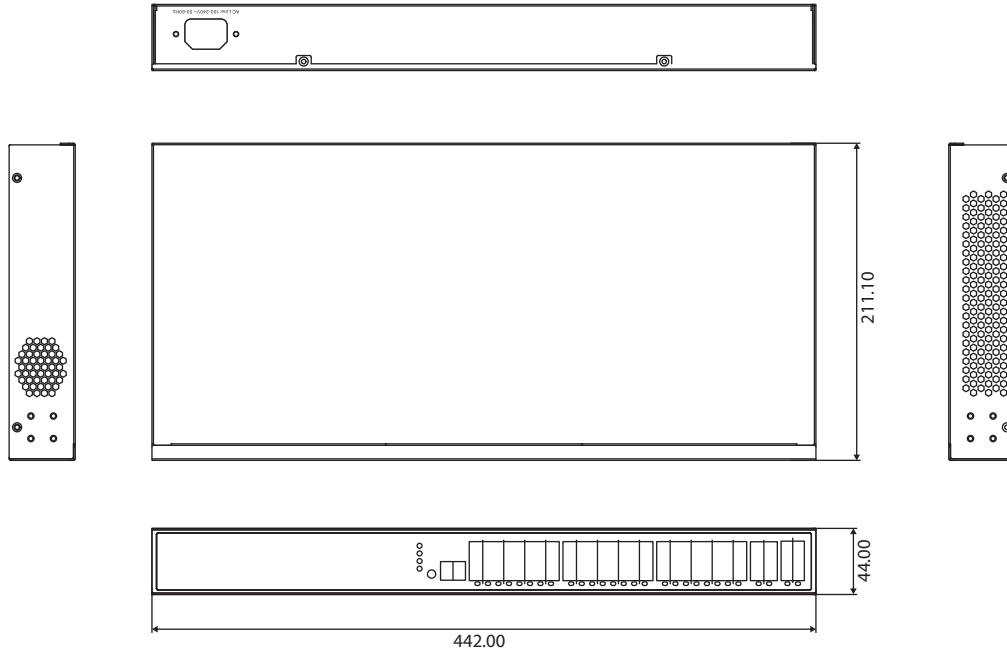
Ordering Information

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