

EKI-9226G-20FMI

EKI-9226G-20FOI

Industrial Rackmount L2 Managed Switch with 48 V_{DC}

Industrial Rackmount L2 Managed Switch with AC/DC



Features

- 20 x Gigabit SFP ports + 6 x Gigabit x RJ-45 ports
- SFP socket for easy and flexible fiber expansion
- Management: SNMP v1/v2c/v3, WEB, Telnet, standard MIB
- 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
- Dual Power input and 2 relay output
- Wide operating temperature range of -40 ~ 85°C

Introduction

The EKI-9226G series are designed for power substation automation applications requiring IEC 61850-3 certification. Thanks to its -40 ~ 85°C wide operating temperature, it can operate well in extremely harsh environments. Designed with 20 Gigabit SFP ports and 4 Gigabit RJ-45 ports, these this series of switches provide abundant and flexible connection options. Finally, the EKI-9226G series feature dual power inputs to ensure system stability and 2 relay output for greater user flexibility.

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** 6 x RJ45 (Ethernet)
20 x SFP ports
3-pin removable screw terminal (power)
4-pin removable screw terminal (relay)
- **LED Indicators** 10/100TX: Link/activity, duplex/collision
Gigabit copper: Link/activity, speed (1000 Mbps)
SFP: Link/activity
- **Console** RS-232 (RJ45)

Mechanism

- **Enclosure** IP30, metal shell with solid mounting kit
- **Dimensions (W x H x D)** 438 x 44 x 315.2 mm
- **Mounting** 1U 19" rack mount

Power

- **Power Consumption** 35W
- **Power Input** EKI-9226G-20FMI: 48V_{DC}
EKI-9226G-20FOI: 90 ~ 264_{AC}/88 ~ 370V_{DC}
- **Fault Output** 2 relay outputs

Protection

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

Environment

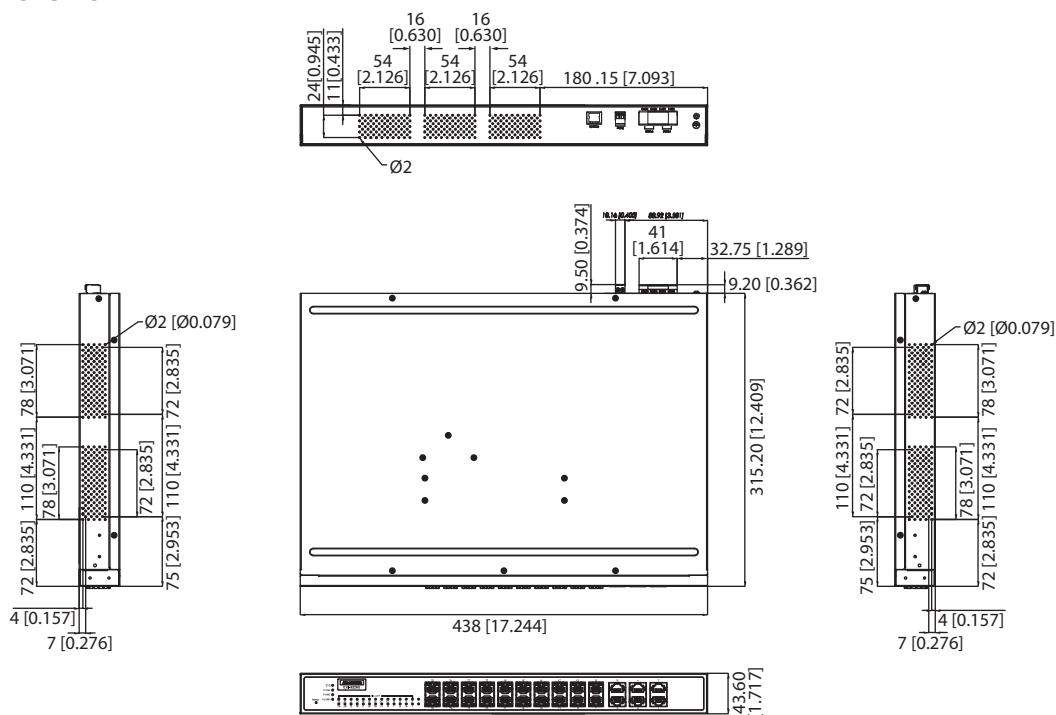
- **Operating Temperature** -40 ~ 85°C (-40 ~ 185°F)
- **Storage Temperature** -40 ~ 85°C (-40 ~ 185°F)
- **Operating Humidity** 10 ~ 95% (non-condensing)
- **Storage Humidity** 10 ~ 95% (non-condensing)

Certification

- **Safety** UL 60950
- **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
- **Power Automation** IEC 61850-3

Dimensions

Unit: mm [in.]



L2 Features

- **L2 MAC Address** 8K
- **Jumbo Frame** 9 KB
- **VLAN Group** 4093 (VLAN ID 1-4093)
- **VLAN** Mac-based VLAN, protocol-based VLAN, IP subnet-based VLAN, port-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
- **Spanning Tree** IEEE 802.1D-STP, IEEE 802.1s-MSTP, IEEE 802.1w-RSTP, X-Ring Pro

QoS

- **Priority Queue Scheduling** WRR, SP
- **Class of Service** IEEE 802.1p-based CoS, IP TOS, DSCP-based CoS
- **Rate Limiting** Egress rate limit, ingress rate limit
- **Link Aggregation** IEEE 802.3ad dynamic port trunking, static port trunking

Security

- **Port Security** Static, dynamic
- **Authentication** 802.1x (port-based), RADIUS, TACACS+
- **ACL** 550 rules
- **Advanced Security** IP Source Guard

Management

- **DHCP** Client, server, relay, option 66/67
- **Access** SNMP v1/v2c/v3, WEB, Telnet, RMON, standard MIB, private MIB
- **Security Access** SSH 2.0, SSL
- **Software Upgrade** TFTP, HTTP, dual image
- **NTP** NTP client

Ordering Information

- **EKI-9226G-20FMI-AE** Industrial Rackmount L2 Managed Switch with 48 V_{DC}
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