EKI-9226G-20FMI EKI-9226G-20F0I

Ind. Rackmount L2 Managed Switch with

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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
- -40 ~ 85°C wide-range operating temperature







Introduction

The EKI-9226G series are designed for power substation automation applications which meet 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. It provides abundant and flexible connection ports. Finally, the EKI-9226G series contain 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

10/100/1000Base-T (X), Optional 100Base-FX, IAN

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)

Gigabit Copper: 10/100/1000 Mbps, Auto-Negotiation Transmission Speed

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 10/100T (X): 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 kits

Dimensions (W x H x D) 438 x 44 x 315.2 mm Mounting 1U 19" Rack mount

Power

Power Consumption

 Power Input EKI-9226G-20FMI: 48Vpc

EKI-9226G-20F0I: 90 ~ 264_{AC}/88 ~ 370V_{DC}

 Fault Output 2 Relay Outputs

Protection

 Power Reverse Present Overload Current Present

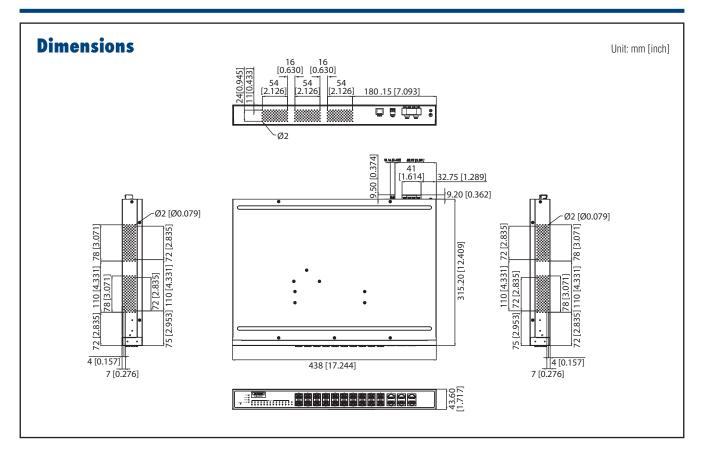
Environment

■ 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 CE FCC Class A = EMI 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 IFC 60068-2-6 Power Automation IEC 61850-3



L2 Features

L2 MAC AddressJumbo Frame9KB

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 WRR (Weighted Round Robin), SP (Strict Priority) Scheduling

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 Ind. Rackmount L2 Managed Switch with 48VDC

• EKI-9226G-20F0I-AE Ind. Rackmount L2 Managed Switch with AC/DC