EKI-9228G-8CMI EKI-9228G-8COI

Industrial Rackmount L2 Managed Switch with 48 V_{nc}

Industrial Rackmount L2 Managed Switch with AC/nc



Features

- 16 x Gigabit RJ-45 ports + 4 Gigabit x SFP ports + 8 x Gigabit combo 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,
- Redundancy: Gigabit X-Ring Pro (ultra-high-speed recovery time, <20 ms), RSTP/STP (802.1w/1D), MSTP
- Dual power input and 2 x relay output
- Wide-range operating temperature of -40 ~ 85°C



Introduction

The EKI-9228G series are designed for power substation automation applications requiring IEC 61850-3 certification. Thanks to its -40 ~ 85°C wide operating temperature range, these switches can operate reliably in extremely harsh environments. Designed with 16 Gigabit ports, 4 Gigabit SFP ports, and 8 Gigabit ports, it provides abundant and flexible connection options. Finally, the EKI-9228G series feature dual power inputs to ensure system stability and 2 relay outputs 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 Ethernet: 10/100 Mbps Auto-Negotiation Gigabit Copper: 10/100/1000 Mbps, Auto-Negotiation

Gigabit Fiber: Up to 1000 Mbps

Interface

Connectors 16 x RJ45 (Ethernet)

8 x RJ45/SFP (mini-GBIC) combo ports

4 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

RS-232 (RJ45)

Console Mechanism

 Enclosure IP30, metal shell with solid mounting kits

Dimensions (W x H x D) 442 x 44 x 352 mm (17.4" x 1.73" x 13.85")

Mounting 1U 19" Rack mount

Power

EKI-9228G-8CMI: 19.21 W @ 48V Power Consumption EKI-9228G-8COI: 19.24 W @ 110VAC

EKI-9228G-8CMI: 48VDC Power Input

EKI-9228G-8C0I: 90 ~ 264AC/88 ~ 370VDC

 Fault Output 2 Relay Outputs

Protection

Power Reverse Present **Overload Current** Present

Environment

• Operating Temperature $-40 \sim 85$ °C ($-40 \sim 185$ °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 EN55022 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

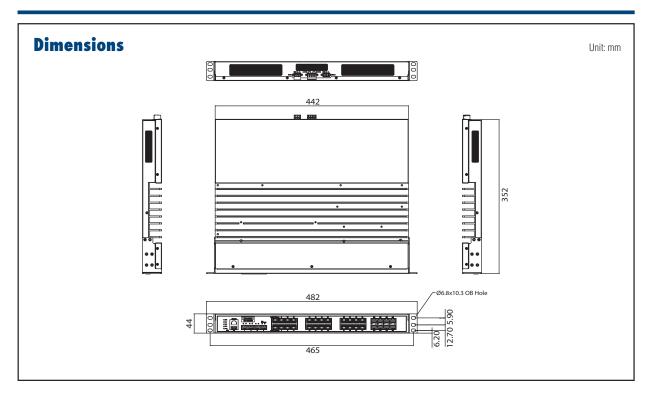
Shock IEC 60068-2-27 Freefall IEC 60068-2-32

IEC 60068-2-6 Vibration **Power Automation** IEC 61850-3

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L2 Features

 L2 MAC Address 16K 9KB Jumbo Frame

VLAN Group 4093 (VLAN ID 1~4093)

Mac based VLAN, Protocol based VLAN, IP subnet VLAN 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

IEEE 802.1D-STP, IEEE 802.1s-MSTP, IEEE **Spanning Tree**

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,

 Security Access SSH 2.0, SSL Software Upgrade TFTP, HTTP, Dual Image

Ordering Information

■ EKI-9228G-8CMI-AE ■ EKI-9228G-8COI-AE

Ind. Rackmount L2 Managed Switch with 48VDC Ind. Rackmount L2 Managed Switch with AC/DC

Private MIB

NTP NTP client

