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, 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 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.

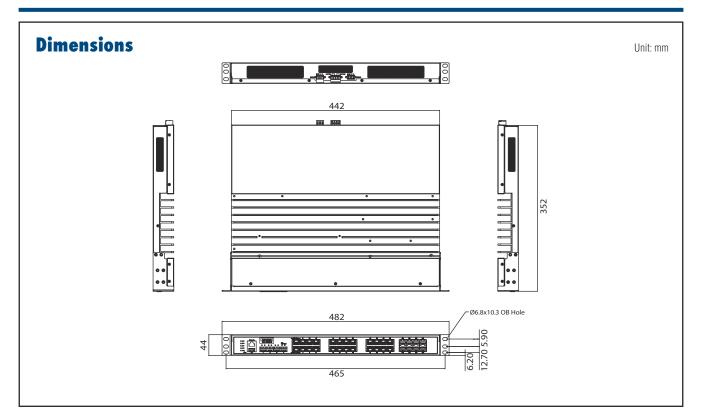
Specifications

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Communications		Power	
 Standard 	IEEE 802.3, 802.3u, 802.3x, 802.3z, 802.1D, 802.1w, 802.1p, 802.1Q, 802.1X, 802.3ad, 802.3ab	 Power Consumption 	EKI-9228G-8CMI: 19.21 W @ 48V EKI-9228G-8COI: 19.24 W @ 110V _{AC}
- LAN	10/100/1000BASE-TX, optional 100BASE-FX, 1000BASE-SX/LX/LHX/XD/ZX/EZX	 Power Input 	EKI-9228G-8CMI: 48V _{DC} EKI-9228G-8COI: 90 ~ 264AC/88 ~ 370V _{DC}
Transmission Distance	Ethernet: Up to 100 m (4- wire Cat.5e, Cat.6 RJ45 cable suggested for Gigabit port)	 Fault Output 	2 Relay Outputs
	SFP: Up to 110 km (depends on SFP)	Protection	
 Transmission Speed 	Ethernet: 10/100 Mbps Auto-Negotiation Gigabit Copper: 10/100/1000 Mbps, Auto-Negotiation Gigabit Fiber: Up to 1000 Mbps	Power ReverseOverload Current	Present Present
		Environment	
Interface - Connectors	16 x RJ45 (Ethernet)	 Operating Temperature Storage Temperature 	-40 ~ 85°C (-40 ~ 185°F) -40 ~ 85°C (-40 ~ 185°F)
	8 x RJ45/SFP (mini-GBIC) combo ports 4 x SFP Ports	 Operating Humidity Storage Humidity 	10 ~ 95% (non-condensing) 10 ~ 95% (non-condensing)
	3-pin removable screw terminal (Power) 4-pin removable screw terminal (Relay)	Certification	
 LED Indicators 	10/100T (X): Link/Activity, Duplex/Collision Gigabit Copper: Link/Activity, Speed (1000 Mbps) SFP: Link/Activity	 Safety EMI EMS 	UL 60950 CE FCC EN55022 Class A EN 61000-4-2
 Console 	RS-232 (RJ45)		EN 61000-4-3
Mechanism			EN 61000-4-4 EN 61000-4-5
 Enclosure 	IP30, metal shell with solid mounting kits		EN 61000-4-5 EN 61000-4-6
) 442 x 44 x 352 mm (17.4" x 1.73" x 13.85")		EN 61000-4-8
,	1U 19" Rack mount	Shock	IEC 60068-2-27
		 Freefall 	IEC 60068-2-32
		 Vibration 	IEC 60068-2-6

IEC 61850-3 Power Automation

EKI-9228G-8CMI EKI-9228G-8C0I



L2 Features

 L2 MAC Address Jumbo Frame VLAN Group VLAN Port Mirroring IP Multicast Storm Control Spanning Tree 	16K 9KB 4093 (VLAN ID 1~4093) Mac based VLAN, Protocol based VLAN, IP subnet based VLAN, Port based VLAN, GVRP Per port, Multi-source port IGMP Snooping v1/v2/v3, MLD Snooping, IGMP Immediate leave Broadcast, Multicast, Unknown unicast IEEE 802.1D-STP, IEEE 802.1s-MSTP, IEEE
QoS	802.1w-RSTP, X-Ring Pro
 Priority Queue Scheduling Class of Service Rate Limiting Link Aggregation 	WRR (Weighted Round Robin), SP (Strict Priority) IEEE 802.1p based CoS, IP TOS, DSCP based CoS Egress Rate limit, Ingress Rate limit IEEE 802.3ad Dynamic Port Trunking, Static Port
Security	Trunking

Security

 Port Security 	Static, Dynamic
 Authentication 	802.1x (Port-Based), RADIUS, TACACS+
- ACL	550 rules

 Advanced Security IP Source Guard

Management

- DHCP
- Access
- Security Access
- Software Upgrade
- NTP

Client, Server, Relay, Option 66/67 SNMP v1/v2c/v3, WEB, Telnet, RMON, Standard MIB, Private MIB SSH 2.0, SSL TFTP, HTTP, Dual Image NTP client

- **Ordering Information**
- EKI-9228G-8CMI-AE
- EKI-9228G-8C0I-AE
- Ind. Rackmount L2 Managed Switch with 48VDC
- Ind. Rackmount L2 Managed Switch with AC/DC