EKI-9728G-4X8CI

Industrial Rackmount L3 Managed Switch with AC/DC

Features

- 16 x Gigabit RJ-45 ports + 4 x 10GbE SFP ports + 8 x Gigabit combo ports
- L3 function: Statis route, RIP, OSPF, VRRP, PIM-SM, PIM-DM
- SFP socket for easy and flexible fiber expansion
- Management: SNMP v1/v2c/v3, WEB, Telnet, standard MIB
- Security: 802.1x HTTPS, SSH, and SNMPv3
- Dual power input and 2 x relay output
- Wide operating temperature range of -40 ~ 85˚C
- Redundancy protocols: Gigabit X-Ring Pro (ultra high-speed recovery time < 20 ms), RSTP/STP (802.1w/1D), MSTP

Introduction

The EKI-9728G is an L3 management switch that supports RIP v1/v2, OSPF v1/v2/v3, and VRRP. Its wide operating temperature of -40 ~ 85°C means that it can operate reliably in harsh environments. Designed with 16 Gigabit ports, 4 10GbE SFP ports, and 8 Gigabit combo ports, this unit provides abundant and flexible connection options. Finally, the EKI-9728G 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
- **10G SFP+ (P1-4)**: Supports 1GBASE or 10GBASE SFP (*compatible with SERDES SFP interface)
- **Combo ports (P21-28)**: 10/100/1000BASE-TX, optional 100BASE or 1GBASE SFP (*compatible with SGMII or SERDES SFP interface)
- **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)

Interface

- **Connectors**: 16 x RJ45 (Ethernet)
  8 x RJ45/SFP combo ports
  4 x SFP+ portss
  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)**: 442 x 44 x 352 mm (17.4" x 1.73" x 13.85")
- **Mounting**: 1U 19" Rack mount

Power

- **Power Consumption**: 19.24 W @ 110V$_{AC}$
- **Power Input**: 90 ~ 264AC/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**: 5~95% (non-condensing)
- **Storage Humidity**: 5~95% (non-condensing)

Certification

- **EMI**: CE FCC EN55011, EN55032
- **Safety**: EN62368-1
- **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

442

352

482

44

465

Ø6.8x10.3 OB Hole

5.90

6.20

12.70

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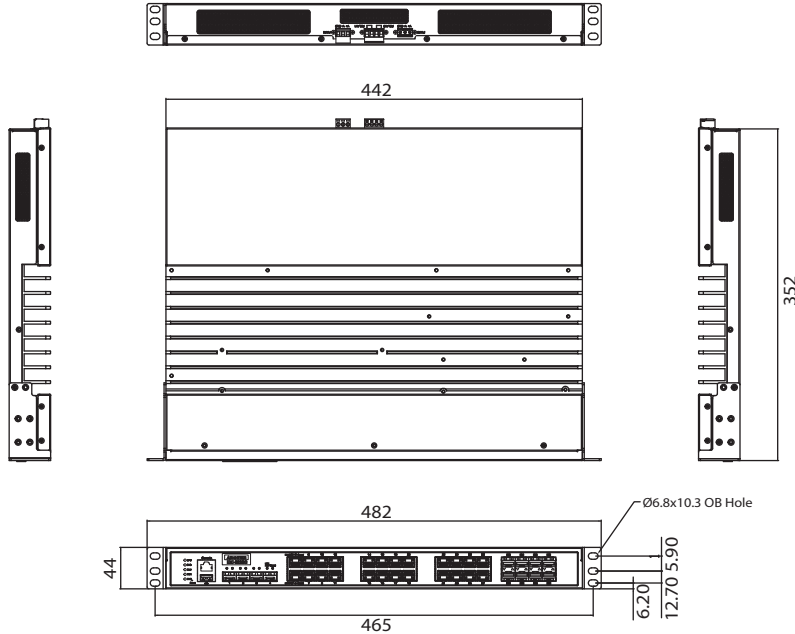
L2 Features

- **L2 MAC Address**   16K
- **Jumbo Frame**   12KB
- **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+
- **Advanced Security**   IP Source Guard

Management

- **DHCP**   Client, Server
- **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**   SNTP client
- **Unicast Routing**   Static Route, RIP, OSPF
- **Multicast Routing**   PIM-SM, PIM-DM
- **Routing Redundancy**   VRRP

Ordering Information

- **EKI-9728G-4X8CI-AE**   Ind. Rackmount L3 Managed Switch with AC/DC