EKI-8528-4XF

Industrial L3 Full Gigabit modular with 4x10G SFP+ managed Ethernet Switch



Features

- 3 x 8 Gigabit ports hot-swappable module slots + 4 x 10G SFP+ ports
- Supports VRRP, RIP v1/v2, OSPFv3, PIM-SM and PIM-DM
- Redundancy: X-Ring Pro (< 20ms @250units), X-Chain
- DHCP relay and DHCP option 82 for flexible host configuration
- Security: 802.1X (port-based, MD5/PEAP encryption), RADIUS
- Management: SNMP v1/v2c/v3, WEB, Telnet, standard MIB, private MIB
- Wide operating temperature range of -40~75°C
- Dual power module slot options for 110/220V_{AC} or 24-48V_{DC} input module
- 2 x IIoT module slots reserved for LTE/ GPRS/ LAN/ DI/DO/ Serial device server modules

60 Watts(Max)

Supported

Supported

110/220VAC, 24-48VDC power module*

Introduction

EKI-8528-4XF is a standard 19" rackmount Layer 3 modular managed switch which provides up to 24 Gigabit ports and 4x10Gigabit uplink solution, it is designed for medium and large Industrial networking environment, as a distribution level L3 switch, it supports RIPv1/v2, OSPFv3, VRRP routing protocols, PIM multiple routing feature and provides 4.5K routing table size for data exchange among multiple network nodes.

Users can choose different Ethernet modules (RJ45 or SFP) and Power modules(24-48Vpc or 110/220Vac) for bringing high flexibility to fulfil various kinds of industrial scenario. such as power stations and trackside signaling which are connecting the wide area of networking devices.

Specifications

Interface

- Ethernet port
- Console port Relay output

Power Connection USB port

Type A *Please refer to accessory list for detail of interface modules

LED Display

System LEDs Port LED

Switch Properties

- DRAM
- Flash
- Max. IGMP Group Max static VLANs
- VLAN ID range
- MAC table
- Jumbo frame
- Packet Buffer
- **Max Priority Queues**

Physical

- Enclosure Protection Class
- Installation
- Dimensions(WxHxD)
- Weight

Environment

- Operating Temperature
- Storage Temperature
- **Ambient Relative Humidity**

-40~75°C with 24xGigabit + 4x10G SFP+ port operation -40 ~ 85°C (-40 ~ 185°F) 5~ 95% (non-condensing)

Power

- System Power Consumption
- Input Voltage
- **Over current Protection**
- **Reverse Polarity Protection**
- *Please refer to accessory list for detail of power inputs

Switch Standards

- IEEE 802.3 for 10BaseT
- IEEE 802.3u for 100BaseT(X) and 100BaseFX IEEE 802.3ab for 1000BaseT(X)
- IEEE 802.3z for 1000BaseSX/LX/LHX/ZX
- IEEE802.3ae for 10GBase over Fiber -

- IEEE 802.3x for flow control IEEE 802.1D-2004 for Spanning Tree Protocol IEEE 802.1w for Rapid Spanning Tree Protocol IEEE 802.1s for Multiple Spanning Tree Protocol
- IEEE 802.1p for Class of Service
- IEEE 802.1Q for VLAN Tagging
- IEEE 802.1X for authentication
 - IEEE 802.3ad for Port Trunk with LACP

Certification

 Safety EMI EMS 	EN62368 CISPR 22, 32, FCC Part 15B Class A EN61000-4-2 (ESD); EN61000-4-3 (RS); EN61000-4-4 (EFT); EN61000-4-5 (Surge); EN61000-4-6 (CS), EN61000-4-6 (CS), EN-61000-4-8 (PEMF)		
 Shock Freefall Vibration Power plant Railway 	IEC60068-2-27 IEC60068-2-32 IEC60068-2-6 IEC61850-3, IEEE1613 EN50121-4		
 L2 Features Link Aggregate 	Static Trunk. 802.3ad LACP		

- VI AN
- Port Mirroring IP Multicast
- Redundancv

802.1Q Tag-based, 802.1v Protocol-based VLAN, 802.1ad VLAN stacking, GVRP, GMRP, MAC/IP subnet/Private/Voice VLAN

Per port, Multi-source port IGMP Snooping v1/v2/v3, MLD Snooping IEEE 802.1D-STP, IEEE 802.1s-MSTP,IEEE 802.1w-RSTP

AD\ANTECH **IP Gateway and Serial Device Servers**

PWR1, PWR2, SYS, R.M., Alarm Link Speed, link/ Act 256MB 128MB 1-4094

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- Metal shell and die-casting
- IP 30 1U 19" Rackmount
- 438 x 44 x 363.5mm (17.24" x 1.73" x 14.31") TRD

2 x Power supply module slots*

- - 3 x 8 port module slots' RJ45 (RS-232) 2-pin Terminal Block

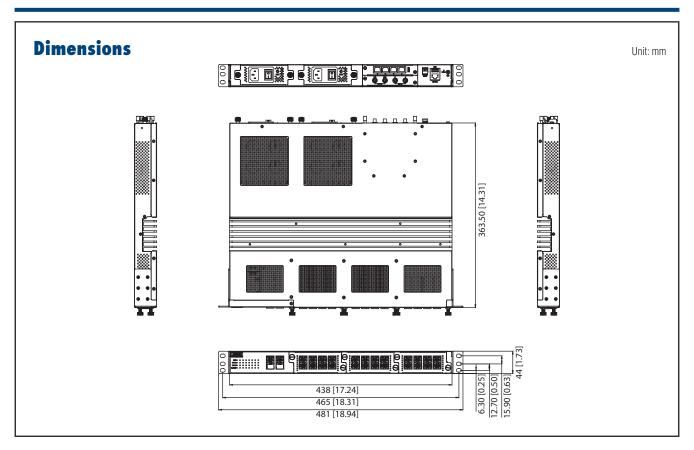
1024

256

32K 10KR

32Mbits

EKI-8528-4XF



L3 Feature spec

Routing protocol
 Routing Table

QoS

- Priority QueueClass of Service
- Rate Limit

Security

- Loop detection
- Storm Control .
- Port Security Authentication
- Account Manager IP Security ACL
- .
- .

Management

- OAM
- PTP
- DHCP
- Config & Access

Static Routing, RIP v1/v2, OSPFv2, VRRPv2, PIM-SM IPv4 up to 3K, IPv6 up to 1.5K

Scheduling WRR (Weighted Round Robin),SP (Strict Priority) IEEE 802.1p based CoS, IP TOS, DSCP, Port priority Ingress/Egress Rate limit

Port-based detection/ prevention Broadcast, Unknown Multicast, Unknown unicast

- Static MAC, MAC Violation Notice 802.1x (Port-Based, MAC-Based), RADIUS, TACACS+ Multiple Account, 0-15 User Privilege IP source guard, DHCP snooping, ARP spoofing L2, L3 Access Control List, Permit/Deny/Redirect
- IEEE802.1ag, Continuity Check, IEEE802.3ah, Link Monitor, Remote Loopback, Dying Gasp, Diagnostic features IEEE1588v2, Precision 1ns, Boundary/ Transparent Clock Client, Server, DHCP Relay, Option 82 relay IPv4/ IPv6, SNMP v1/v2c/v3, WEB GUI, Telnet, RMON, SSH 2.0, SSL(TLSv1) Standard MIB, Private MIB TFTP, HTTP, SFTP; Firmware Dual Image; N-key SNTP/NTP client, DNS client, Syslog

- Upgrade/ BackupOthers

Accessories (Need to be ordered separately)

Ethernet Modules

Part Number		Description		
	EKI-ME08-8GFA	Gigabit SFP Module with 8 x 100/1000Base SFP ports		
* HHH	EKI-ME08-8GTA	Gigabit Ethernet Module with 8 x 10/100/1000BaseTX ports		

Power Supply Modules

Part Number		Description		
	EKI-MP01-ACOA	Power supply module of $110/220V_{AC}/V_{DC}$ input with 3-pin IEC male and on/off switch Operating Voltage: 85 to $264V_{AC}$, 88 to $370V_{DC}$		
****	EKI-MP01-DCA	Power supply module of 24-48V _{DC} input with 2-pin terminal block Operating Voltage: 17 to 137V _{DC}		

Ordering Information

Part Number	1000/10G Base SFP+ Ports	100/1000 Base SFP ports	10/100/1000 BaseTX Ports	Note
EKI-8528-4XF	4	Up to 24	Up to 24	Ethernet and Power supply module need to be ordered separately.