



# KGS-2422



## Managed 24-Port Modular Gigabit Ethernet Switches with 100BASE-FX Support

### Product Highlights:

- 24-Port Managed Gigabit switch
- Three 8-Port Module slots
- 10/100/1000M copper connectivity
- 1000M fiber connectivity
- 100M fiber connectivity
- 100/1000M support on SFP port
- Web/CLI/SNMP/SSH/HTTPS support
- 802.1Q Tagged VLAN
- Comprehensive QoS
- RSTP support
- 802.1X Access control
- ACL configuration
- IGMP snooping
- Enhanced security features

### AC Power Option



### DC Power Option



The 24-port Managed Gigabit Ethernet Switches are standard L2 switches that meet all IEEE 802.3/u/x/z Gigabit, Fast Ethernet specifications. The switches provide three 8-port modular slots. Each slot can accommodate one 8-port module. A variety of modules is available for selection. They include 10/100/1000M copper module, 100/1000M SFP module, Copper and SFP mixed modules, and Fast Ethernet fiber modules. Different modules can be installed flexibly in one device rack. The system detects the types of the installed modules and configures the modules automatically. With variety of modules and flexibility of installation, the switches can meet most requirements of deployment of fiber networks no matter they are Gigabit Ethernet base, Fast Ethernet base or even combination of both.

The switches support console CLI, Telnet CLI, Web GUI and SNMP interface for switch management. The network administrator can log on the switch to monitor and configure port operating mode, Quality of Service, and powerful L2 switching functions such as VLAN, IGMP, RSTP etc. In addition, the switches are also featured with security functions such as IEEE802.1x and ACL control to make them suitable for office applications.

### Key Features:

- Fully modular design with three 8-port module slots supporting Gigabit and Fast Ethernet
- A variety of optional modules is available for selection including Gigabit copper, Gigabit fiber, Gigabit mix of copper and fiber, and Fast Ethernet fiber
- The copper ports support 10/100/1000Mbps auto-negotiation and auto-MDI/MDI-X detection.
- The SFP port can support both 100Mbps fiber transceivers and Gigabit Ethernet SFP fiber transceivers
- Support connectivity for Fast Ethernet fiber, 100BASE-FX with SC/ST/BiDi/VF-45 transceivers
- Flexible installation with any combination of different modules in one rack
- Provides Gigabit full wire speed forwarding
- Supports power saving mode when port link down or different RJ-45 cable length.
- Supports 802.3x flow control for full-duplex and backpressure for half-duplex
- Supports console and in-band Web/Telnet/SSH/HTTPS/SNMP interfaces for switch management
- Supports configurable maximum frame length from 1518 up to 9600 jumbo frame
- Supports port-based, 802.1Q tag-based VLAN and private VLAN
- Provides QoS function
- Supports port bandwidth control for ingress and egress
- Supports packets storm control function for broadcast, unicast and multicast
- Supports MAC address learning, ageing and filtering control
- Supports LACP port link aggregation
- Supports IEEE 802.1d, 802.1w, 802.1s STP (Spanning Tree Protocol), RSTP, MSTP
- Provides port mirroring function
- Provides IP Multicasting with IGMP Snooping function
- Supports DHCP client for dynamic IP configuration
- Supports 802.1X port-based radius authentication for access security
- Provides ACL filtering function
- Provides port data rate control function
- Supports SNMP Client
- Supports LLDP
- Provides SNMP v1/v2C/v3 agent and event trap function
- Supports Configuration download and upload
- 19" rack mountable
- Both AC powered model and DC powered model are available for choice

## Ordering Information:

Model	24-Port Main Unit, with AC or DC Power, without any slide-in modules		
Module	GbE Copper	100/1000M SFP	100M Fiber
8GT	8 RJ-45	-	-
8GX	-	8 SFP	-
8G4	4 RJ-45	4 SFP	-
8FX-T	-	-	8 MM ST
8FX-C	-	-	8 MM SC
8FX-SL2	-	-	8 SM SC 20km
8FX-W3520	-	-	8 BiDi SC 20km
8FX-W5320	-	-	8 BiDi SC 20km
8FM-T	2 RJ-45	-	6 MM ST
8FM-C	2 RJ-45	-	6 MM SC
8FM-SL2	2 RJ-45	-	6 SM SC 20km
8FM-W3520	2 RJ-45	-	6 BiDi SC 20km
8FM-W5320	2 RJ-45	-	6 BiDi SC 20km

\* x=S: AC power, x=D: DC power



FCC Part 15, Class A  
CISPR 22 Class A

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## Specifications:

Standard	IEEE 802.3, 802.3ab, 802.3z, 802.3x, 802.1x, 802.1w, 802.1D, 802.1Q
Module Slots	3 slots
Module Solutions	8-Port 10/100/1000BASE-T Gigabit Ethernet copper module 8-Port 100BASE-FX/1000BASE-X SFP fiber module 8-Port mix of 10/100/1000 copper and 100/1000 SFP fiber module 8-Port 100BASE-FX fiber modules (SC/ST/BiDi SC) 6-Port 100BASE-FX fiber plus 2-Port 10/100/1000BASE-T copper module
Copper Ports	Shielded RJ-45, 10/100/1000Mbps, auto-negotiation, auto-MDI/MDI-X support
SFP Slots	Slots for 100M Fast Ethernet SFP fiber transceivers or 1000M Gigabit Ethernet SFP fiber transceivers
100M Fiber Ports	100BASE-FX Fast Ethernet fiber transceivers supporting MMF and SMF
Network Cables	10/100/1000BASE-T copper: Cat.5 or better up to 100 meters, 1000BASE-X: 62.5/125µm, 50/125µm MMF, 9/125µm SMF 100BASE-FX: 62.5/125µm, 50/125µm MMF, 9/125µm SMF, BiDi SMF
MAC Addresses	Table with 8K entries
LED Indication	Per unit: Power, Mngt, Per port: Speed/Link/Activity Status
AC Power Input	IEC320 receptacle, Operating voltage range: +100 ~ 240VAC
DC Power Input	Screw type terminal block, Operating voltage range: +40 ~ 72VDC
Power Consumption	40W max.
Housing	Enclosed metal with fan
Dimension	443 x 245x 43 mm (WxDxH)
Mounting Support	19" rack and wall mountable
Environment	Operating Temperature : -5°C ~ 50°C, Storage Temperature: -25°C ~ 85°C Relative Humidity: 10% ~ 90% non-condensing
Approval	FCC Class A, CE mark Class A, IEC60950-1 safety

## Model Definitions:

**KGS-2422-x-24F-T**  
24 x 100M MM ST



**KGS-2422-x-24F-C**  
24 x 100M MM SC



**KGS-2422-x-24F-SL2**  
24 x 100M SM SC



**KGS-2422-x-2U22F-T**  
22 x 100M MM ST  
+ 2 Uplink copper



**KGS-2422-x-2U22F-C**  
22 x 100M MM SC  
+ 2 Uplink copper



**KGS-2422-x-2U22F-SL2**  
22 x 100M SM SC  
+ 2 Uplink copper



**KGS-2422-x-24G**  
24 x 100/1000M SFP



**KGS-2422-x-4U20G**  
20 x 100/1000M SFP  
+ 4 Uplink copper



**KGS-2422-x-8U16G**  
16 x 100/1000M SFP  
+ 8 Uplink copper



\* x=S: AC power, x=D: DC power \* Call for unlisted special options