# KGS-2422-B

## Managed 24-Port Modular L2/L3 Gigabit Ethernet Switches with 100BASE-FX Support

### Product Highlights:

- 24-Port Managed Gigabit switch
- Three 8-Port Module slots for mix & match configuration
- 10/100/1000M copper connectivity
- 1000M and 100M fiber connectivity
- 100/1000M support on SFP ports
- IPv4 and IPv6 support
- L2 & L3 switching functions
- Web/Telnet CLI/SNMP/SSH /HTTPS support
- ACL configuration
- L3 Multicast IGMP & MLD snooping

AC Power Option

DC Power Option

The 24-port Managed Gigabit Ethernet Switches are standard L2/L3 switches that meets 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. Network administrator can logon the switch to monitor and configure port operating mode, Quality of Service, and powerful Layer 2 switching functions such as VLAN, IGMP, RSTP etc. In addition, the switches are also featured Layer 3 switching functions that enable to route IPv4/IPv6 Unicast and IPv4 Multicast frames. With comprehensive security functions such as IEEE802.1x and ACL control to make them suitable for medium enterprise 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, SFP fiber, mix of copper and SFP fiber, and Fast Ethernet fibers
- The copper ports support 10/100/1000Mbps auto-negotiation and auto-MDI/MDI-X.
- The SFP ports support both 100Mbps and Gigabit Ethernet SFP fiber transceivers.
- The Fast Ethernet fibers includes variety of 100BASE-FX with SC/ST/BiDi transceivers.
- Flexible installation with any combination of different modules in one rack
- Provides L2 switching at Gigabit full wire speed
- Provides L3 switching functions for IPv4/IPv6 Unicast routing and IPv4 Multicast routing
- Supports console/Web/Telnet/SSH/HTTPS/SNMP interfaces for switch management
- Supports configurable maximum frame length from 1518 up to 10056 jumbo frame
- Supports port-based ,802.1Q tag-based VLAN and private VLAN
- Provides tag-based and DSCP-based QoS function
- Supports port bandwidth control for ingress and egress
- Supports packets storm control function for broadcast, unicast and multicast
- Supports LACP port link aggregation
- Supports MAC address learning, ageing and filtering control
- Supports IEEE 802.1d, 802.1w, 802.1s STP (Spanning Tree Protocol), RSTP, MSTP
- Provides port mirroring function
- Provides IP Multicasting with IGMP & MLD Snooping function
- Supports DHCP client & server for dynamic IP configuration
- Supports DHCP option 82 relay
- Supports complete 802.1X authentication for access security
- Provides ACL filtering function
- Provides port data rate control function
- Supports NTPv4 Client
- 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.

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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<br>8-Port 100BASE-FX/1000BASE-X SFP fiber module<br>8-Port mix of 10/100/1000 copper and 100/1000 SFP fiber module<br>8-Port 100BASE-FX fiber modules (SC/ST/BiDi-SC)<br>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, 5e or higher up to 100 meters,<br>1000BASE-X: 62.5/125μm, 50/125μm MMF, 9/125μm SMF<br>100BASE-FX: 62.5/125μm, 50/125μm MMF, 9/125μm SMF, BiDi SMF |
| MAC Addresses | Table with 16K entries |
| VLAN Support | 4K |
| 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 | 46W max. |
| Housing | Enclosed metal with fan |
| Dimension | 443 x 245x 43 mm (WxDxH) |
| Mounting Support | 19" rack and wall mountable |
| Environment | Operating Temperature: -5℃ ~ 50℃, Storage Temperature: -25℃ ~ 85℃<br>Relative Humidity: 10% ~ 90% non-condensing |
| Approval | FCC Class A, CE mark Class A, IEC60950-1 safety |

# Model Definitions:

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

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

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

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

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

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

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

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

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

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## Ordering Information:

| Model | Description |
|---|---|
| KGS-2422-B-S-x | 24-port main unit with AC power without any slide-in module |
| KGS-2422-B-D-x | 24-port main unit with DC power without any slide-in module |

**KGS-2422-xxxx:**

| Modules | 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 |