



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 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. 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 include 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.

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



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, 5e or higher 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 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°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-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

