KGS-2422-TG

Managed 26-Port Modular L2/L3 Gigabit Ethernet Switches with 10G Uplink Support

Product Highlights:

- 26-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
- Two 10G SFP+ ports
- IPv4 and IPv6 support
- L2 & L3 switching functions
- Web/Telnet CLI/SNMP/SSH/HTTPS support
- ACL configuration

The 26-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 8-port 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 provide two 10GBASE SFP+ slots on the rear panel. The SFP+ slots can be installed with 10GBASE optical fiber transceivers for high bandwidth fiber connection. They are used as uplink ports to the backbone networks. They also can be used as a high-bandwidth inter-connection between two switches and support full wire speed forwarding between two switches.

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 8-port 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 100BASE-FX and 1000BASE-X 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
- Provide two 10G SFP+ uplink ports
- The SFP+ ports support both 1000BASE-X and 10GBASE-X SFP fiber transceivers
- Provide L2 switching at Gigabit full wire speed
- Provide L3 switching functions for IPv4/IPv6 Unicast static routing and IPv4 Multicast static routing
- Support console/Web/Telnet/SSH/HTTPS/SNMP interfaces for switch management
- Support configurable maximum frame length from 1518 up to 10240 jumbo frame
- Support port-based ,802.1Q tag-based VLAN and private VLAN
- Provide tag-based and DSCP-based QoS function
- Support port bandwidth control for ingress and egress
- Support packets storm control function for broadcast, unicast and multicast
- Support LACP port link aggregation
- Support MAC address learning, ageing and filtering control
- Support IEEE 802.1d, 802.1w, 802.1s STP(Spanning Tree Protocol), RSTP, MSTP
- Provide port mirroring function
- Provide IP Multicasting with IGMP & MLD Snooping function
- Support DHCP client & server for dynamic IP configuration

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AC Power Option

DC Power Option

10G SFP+

- Support DHCP option 82 relay
- Support complete 802.1X authentication for access security
- Provide ACL filtering function
- Provide port data rate control function
- Support NTPv4 Client
- Provide SNMP v1/v2C/v3 agent and event trap function
- Support Configuration download and upload
- 19" rack mountable
- Both AC powered model and DC powered model are available for choice.

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 100BASE-FX SFP or 1000BASE-X SFP fiber transceivers
100M Fiber Ports	100BASE-FX fiber transceivers supporting MMF and SMF
10G SFP+ Slots	Slots for 1000BASE-X SFP or 10GBASE-X SFP fiber transceivers Direct Attach Cable (DAC) and Active Optical Cable (AOC) support
Console	Male DB9, DTE Type
Network Cables	10/100/1000BASE-T copper: Cat.5, 5e or higher up to 100 meters, 10GBASE-X: 62.5/125μm, 50/125μm MMF, 9/125μm SMF 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 32K entries
VLAN Support	4K
Packet Buffer	16Mbit
LED Indication	Per unit: Power, Management status, 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: +/-40V ~ +/-60V Power Consumption 48W 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, VCCI Class A, IEC60950-1 safety

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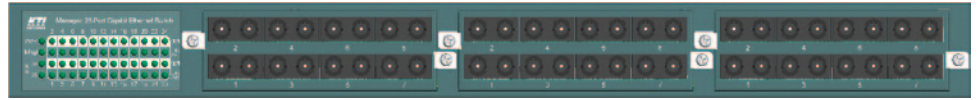
Ordering Information:

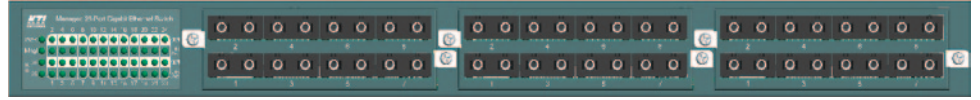| Model	Description
KGS-2422-TG-S-x	26-port main unit with AC power without any slide-in module
KGS-2422-TG-D-x	26-port main unit with DC power without any slide-in module

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

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Model Definitions:

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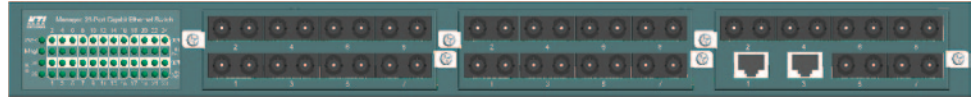

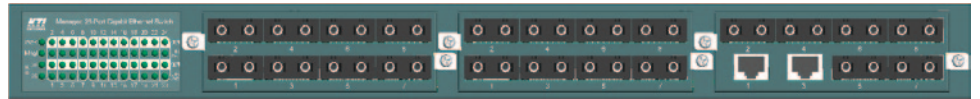**KGS-2422-TG-x-24F-C -** 24 x 100M MM SC
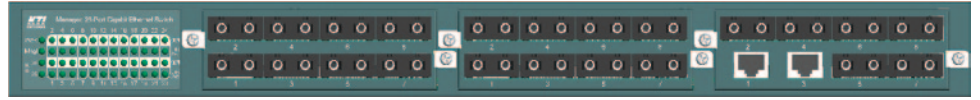

KGS-2422-TG-x-24F-SL2 - 24 x 100M SM SC

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

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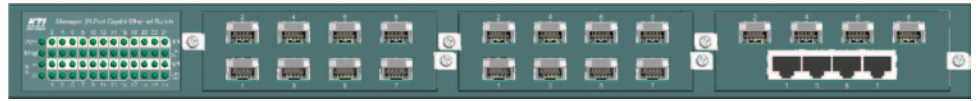

KGS-2422-TG-x-2U22F-SL2 - 22 x 100M SM SC + 2 Uplink copper

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

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

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

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