



# KGS-510F Ver.C



## Web Smart 6-Port L2 Gigabit Ethernet Switch with 1 GbE SFP Port

### Product Highlights:

- Compact design
- Web management
- One 1000M SFP fiber
- DHCP support
- 802.1Q Tagged VLAN support
- QoS WFQ support
- Port mirroring function
- 802.1x port access control
- RSTP and MSTP support
- LACP link aggregation
- Jumbo frame support
- IGMP snooping
- High power saving

### Key Features:

- Provides 5 10/100/1000Mbps RJ-45 and one 1000M SFP
- Provides in-band web-based management interface
- All copper ports support auto-negotiation and auto-MDI/MDI-X detection
- Provides full wire speed performance
- Supports jumbo frame at all speeds
- Supports 802.3x flow control for full-duplex and backpressure for half-duplex
- Provides port status, statistic monitoring and control function
- Provides DHCP client & static IP configuration
- Supports port-based and 802.1Q Tag-based VLAN
- Provides QoS function
- Provides port link aggregation (trunking) function with LACP support
- Provides port mirroring function
- Provides 802.1x authentication for port access
- Supports 802.1w RSTP and 802.1s MSTP
- Provides IGMP snooping

### Specifications:

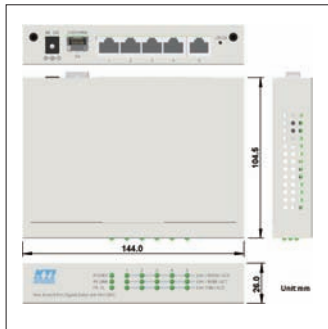
Standard	IEEE 802.3, 802.3u, 802.3ab, 802.3x, 802.1w, 802.1x, 802.3ad, 802.1Q
Network Ports	5 10/100/1000Mbps Gigabit copper ports Shielded RJ-45, auto-negotiation, auto-MDI/MDI-X support 1 1000Mbps Gigabit fiber SFP port SFP supports standard SFP fiber transceiver installation
Network Cables	10/100Mbps: Cat.5 up to 100m, 1000Mbps: Cat.5e or higher up to 100m MMF 50/125 60/125, SMF 9/125
MAC Address Table	8K entries
IP Multicast Groups	8K
Buffer Memory	136K bytes
VLAN	Port based VLAN, 802.1Q Tag-based VLAN
Port Link Aggregation	LACP (802.3ad) support
QoS	4 priority queues, Classification: Port-based, 802.1p, IP DSCP
LED Indication	Per unit: Power Per copper port: 1000M, 100M, 10M speed/link/activity status SFP port: 1000M speed/link/activity status, Optical link status
Management Support	Web browser software, SNMP MIB-2
Management Objects	System settings, Port status/statistics, Port control, VLAN, QoS, LACP aggregation, port mirroring, Firmware upgrade, 802.1w RSTP, 802.1x, IGMP snooping, Storm control, Power saving, Configuration backup and restore



### Optional Accessories:

WMK5	Wall mounting kit
KTI quality SFP transceivers	

Dimension



Environment	Operating Temperature: 0°C ~ 40°C (Main device)
	Storage Temperature: -20°C ~ 70°C
	Relative Humidity: 10% ~ 90% non-condensing
Dimension	144 x 104.5 x 26 mm (WxDxH)
Power Input	+5V ~ +12VDC (+/-5%) via external power adapter
Power Consumption	5W max. @+5V (DC IN) Less than 0.5W when no link ports under power saving mode
Approval	FCC Class A, CE mark Class A

### Fiber Optical Specifications:

Model	Connector	Fiber	Wavelength	Tx Power*	Rx Sens.	Rx Max.	Distance
-SX	LC	62.5/125 MMF 50/125 MMF	850nm	-9.5 ~ -4dBm	-18dBm	0dBm	200m 500m
-LX	LC	MMF SMF	1310nm	-9.5 ~ -3dBm	-20dBm	-3dBm	550m 10km
-LX20	LC	SMF	1310nm	-8 ~ -2dBm	-23dBm	-1dBm	20km
-LX30	LC	SMF	1310nm	-4 ~ +1dBm	-24dBm	-3dBm	30km
-LX50	LC	SMF	1550nm	-4 ~ +1dBm	-24dBm	-3dBm	50km
-LX70	LC	SMF	1550nm	0 ~ +5dBm	-24dBm	-3dBm	70km
-W3510	Bi-Di LC	SMF	Tx 1310nm Rx 1550nm	-9 ~ -3dBm	-21dBm	-1dBm	10km
-W5310	Bi-Di LC	SMF	Tx 1550nm Rx 1310nm	-9 ~ -3dBm	-21dBm	-1dBm	10km
-W3520	Bi-Di LC	SMF	Tx 1310nm Rx 1550nm	-8 ~ -3dBm	-23dBm	-1dBm	20km
-W5320	Bi-Di LC	SMF	Tx 1550nm Rx 1310nm	-8 ~ -3dBm	-23dBm	-1dBm	20km
-W3410	Bi-Di LC	SMF	Tx 1310nm Rx 1490nm	-9 ~ -3dBm	-21dBm	-1dBm	10km
-W4310	Bi-Di LC	SMF	Tx 1490nm Rx 1310nm	-9 ~ -3dBm	-21dBm	-1dBm	10km
-W3410S	Bi-Di SC	SMF	Tx 1310nm Rx 1490nm	-9 ~ -3dBm	-21dBm	-1dBm	10km
-W4310S	Bi-Di SC	SMF	Tx 1490nm Rx 1310nm	-9 ~ -3dBm	-21dBm	-1dBm	10km

\*Data for 62.5/125µm MMF, 9 /125µm SMF



FCC Part 15, Class A  
CISPR 22 Class A

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### Application Example

Edge workgroup switch with uplink to 802.1Q tagged backbone network via 1000M fiber

