



# KGD-600 Ver.B



## Industrial Managed 6-Port L2 Gigabit Ethernet Switch with 1 GbE SFP Port

### Product Highlights:

- Panel/DIN-Rail/Wall mountable
- Wide operating temperature range
- In-band management
- Optional Fiber connectivity
- 802.1Q Tagged VLAN support
- QoS WFQ support
- 802.1x authentication
- RSTP support
- IGMP snooping
- Compact design
- High power saving

Panel Mounting  
KSD-6PB



DIN-Rail Mounting



Top LED Display



### Key Features :

- Provides 5 10/100/1000Mbps Gigabit Ethernet ports and 1 mini-GBIC port
- Provides in-band web-based management interface
- All copper ports support auto-negotiation and auto-MDI/MDI-X detection
- Supports 802.3x flow control for full-duplex and backpressure for half-duplex
- Provides port status, statistic monitoring and control function
- Provides full wire speed forwarding
- Supports port-based and 802.1Q Tag-based VLAN
- Provides QoS function
- Provides 802.1x authentication
- Supports configuration backup and upload
- Provides port mirroring function
- Supports 802.1w RSTP
- Provides IGMP snooping
- Industrial-rated emission and immunity performance

### 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 mini-GBIC SFP port SFP supports standard SFP fiber transceiver installation
Network Cables	10/100/1000Mbps copper: Cat.5, 5e or higher up to 100m
MAC Address Table	8K entries
Buffer Memory	136K bytes
VLAN	Port based VLAN, 8021Q Tag-based VLAN
Port Link Aggregation	LACP (802.3ad) support
QoS	4 priority queues, Classification: Port-based, 802.1p, IP DSCP
LED Indication	Display on both top and front panels 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
DC Power Input	Screwed Terminal Block: +6.5VDC ~ +32VDC DC IN Jack: -D 6.3mm/+D 2.0mm External power adapter rating: +6.5VDC ~ +32VDC



**Power Terminal Block**



**EMI EMS Safety Environmental Tests:**

Test	Standard	Specifications
FCC/EMI	FCC Rule Part 15	Class B
CE/EMC/EMI	EN55022, CISPR 22	Class B
CE/EMC/Harmonic	EN 61000-3-2	< 75 W
CE/EMC/VFF	EN 61000-3-3	Clause 5
CE/EMC/EMS	EN 55024	
ESD Test	IEC 61000-4-2	Contact: +/-8KV Air: +/-16KV
RS Test	IEC 61000-4-3	Strength:10V/m
EFT/BURST	IEC 61000-4-4	Power:+/-4KV RJ-45:+/-2KV
Surge Immunity	IEC 61000-4-5	Power:+/-4KV
CS Test	IEC 61000-4-6	Level 3
Magnetic Field Imm.	IEC 61000-4-8	50Hz 40A/m
Voltage Dips Imm.	IEC 61000-4-11	Interruption: C Dips: B
Safety	EN 60950, IEC 60950	
Dielectric Voltage	IEEE 802.3	TP, 1500VAC/60sec.
Insulation Resistance	IEEE 802.3	TP, 500VDC/10Mohm
Cold Test	IEC 60068-2-1 Ad	-30°C, 96hrs
Dry Heat Test	IEC 60068-2-2 Bd	+74°C, 40%RH, 96hrs
Damp Heat Test	IEC 60068-2-3 Ca	+60°C, 90%RH, 96hrs
Storage Test	IEC 60068-2-27 Ea	-40°C, 96hrs +85°C, 40%RH, 96hrs
Vibration Test	IEC 60068-2-64 Fh	10-200Hz, 0.1g <sup>2</sup> /Hz 200-500Hz, 0.03g <sup>2</sup> /Hz
NEMA TS2 Vibration test	NEMA TS2-2003 Proc. 2.2.8	5-30Hz, 0.5g xYZ, 1hr/axis
NEMA TS2 Shock test	NEMA TS2-2003 Proc. 2.2.9	10G
NEMA TS2 Environment test	NEMA TS2-2003 Proc. 2.2.7.3-6	Temp: -34~74°C Humid: 0%~90% Power: +6.5V~30V



**FCC Part 15, Class A  
CISPR 22 Class A**

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Power Consumption 5W max. @+7.5V (DC IN)  
\*2 Less than 0.5W when no link ports under power saving mode

Dimension 144 x 104.5 x 26 mm (WxDxH)

Housing Enclosed metal with no fan

Mounting Support Screw Panel Mounting, DIN-Rail Mounting, Wall/Desktop Mounting

Environment Operating Temperature: -40°C ~ 70°C (Main device)

Storage Temperature: -40°C ~ 85°C

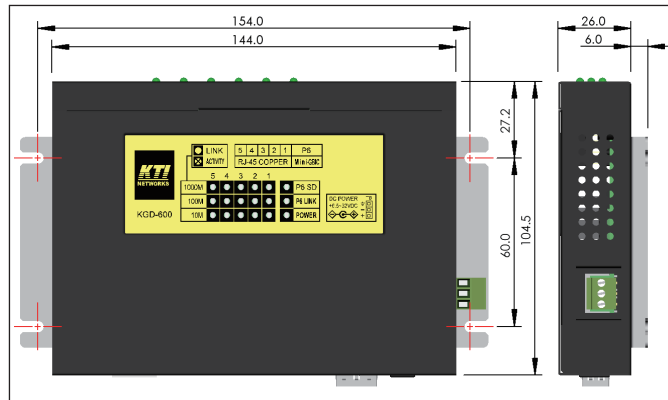
Relative Humidity: 10% ~ 90% non-condensing

Approval FCC Class A  
CE mark Class A  
EN60950-1/IEC60950-1 safety  
NEMA TS2-2003 Environment tests

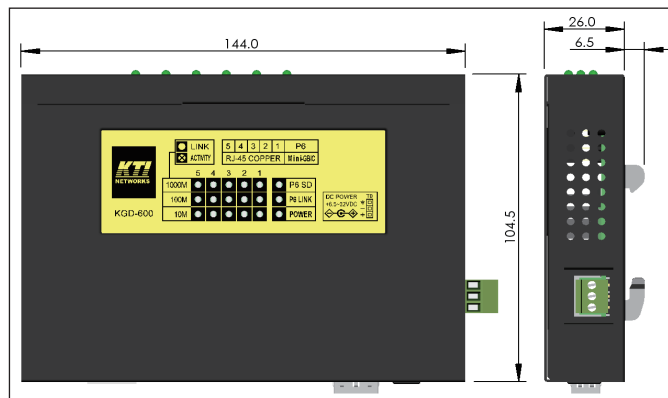
**Fiber Optical Specifications:**

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

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



Panel Dimension



DIN-Rail Dimension