



# KGD-802-B, KGD-802-B-P



## Industrial 8-Port L2 Gigabit Ethernet Switches with 2 SFP Slots and 4 PoE PSE Ports

### Product Highlights:

- 802.1Q Tagged VLAN
- QoS WFQ support
- LACP link aggregation
- 802.1x access control
- 802.1w RSTP, STP, MSTP
- DHCP client
- SFP DDM support
- 802.3af PoE
- Port mirroring
- IGMP snooping
- High power saving

### EMI EMS Safety Environmental Tests:

Test	Standard	Specifications
FCC/EMI	FCC Rule Part 15	Class A
CE/EMC/EMI	EN55022, CISPR 11	Class A
CE/EMC/Harmonic	EN 61000-3-2	Class A
CE/EMC/VFF	EN 61000-3-3	Clause 5
CE/EMC/EMS	EN 55024	
ESD Test	IEC 61000-4-2	Contact: +/-4KV Air: +/-8KV
RS Test	IEC 61000-4-3	Strength: 10V/m
EFT/BURST	IEC 61000-4-4	DC IN: 0.5KV Signal: 1KV
Surge Immunity	IEC 61000-4-5	DC IN: 0.5KV Signal: 1KV
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 68-2-1 Test Ad	-20°C, 96hrs
Dry Heat Test	IEC 68-2-2 Test Bd	+60°C 40%RH 96hrs
Damp Heat Test	IEC 68-2-3	+60°C 90%RH 96hrs
Storage Test	IEC 68-2-48	-20°C 96hrs +85°C 40%RH 96hrs
Vibration Test	IEC 68-2-34	5~30Hz, 0.5g Operating

### Key Features:

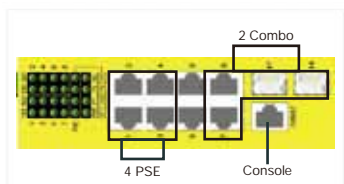
- Provides 8 10/100/1000Mbps RJ-45 and two Mini-GBIC SFP slots
- Provides in-band web and SNMP management interfaces
- All copper ports support auto-negotiation and auto-MDI/MDI-X detection
- Provides full wire speed forwarding
- Supports 802.3x flow control for full-duplex and backpressure for half-duplex
- Provides port status, statistic monitoring and control function
- Supports port-based and 802.1Q Tag-based VLAN
- Provides QoS function
- Provides port link aggregation (trunking) function and LACP support
- Provides port mirroring function
- Provides 802.1x authentication for port access
- Supports 802.1w RSTP, 8021D STP and MSTP
- Provides IGMP snooping
- Supports SFP with Digital Diagnostic Monitoring (DDM)
- Supports DHCP for dynamic IP configuration
- Provides optional four 802.3af-compliant PoE PSE ports

### Specifications:

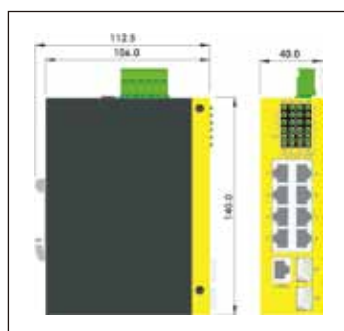
Standard	IEEE 802.3, 802.3ab, 802.3z, 802.3x, 802.3af, 802.1x, 802.1w, 802.1D, 802.1Q
Network Ports	6 10/100/1000Mbps Gigabit copper ports 2 combo ports -10/100/1000Mbps copper & mini-GBIC SFP
Copper Port	Shielded RJ-45, 10/100/1000Mbps, auto-negotiation, auto-MDI/MDI-X support
Mini-GBIC SFP	Gigabit Ethernet 1000Base-X compliant SFP connector
Console	Connector: Shielded RJ-45 Interface: RS-232
Network Cables	10/100/1000Mbps copper: Cat.5 up to 100m 1000Base-X: 62.5/125µm, 50/125µm MM fiber, 9/125µm SM fiber
Power over Ethernet	IEEE 802.3af compliant PSE (power source) on Port 1 ~ Port 4 Power delivery 48V 15.4W max. at port output for a Cat.5 distance of 100 meters
MAC Addresses	Table with 8K entries
Buffer Memory	176K bytes
VLAN function	Port based VLAN, 8021Q Tag-based VLAN
Port Link Aggregation	LACP 802.3ad compliant link aggregation
QoS function	4 priority queues, Classification: Port-based, 802.1p, IP DSCP



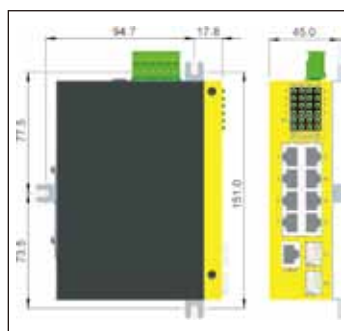
**Ports**



**DIN-Rail Dimension**



**Panel Dimension**



LED Indication	Per unit: power, management status Per port: 1000M,100M, 10M speed/link/activity status Per SFP: fiber link status Per PoE port: power status
Relay Output	Alarm: power failure, specific port link fault Interface: 2 terminal contacts (30VDC/1A max. or 120VAC/0.5A max.)
Web Management	Web browser software System settings, port status/statistics, port control, VLAN, QoS, IGMP snooping, Link aggregation, port mirroring, Firmware upgrade 802.1x, 802.1w, Configuration backup and restore
SNMP Support	SNMP v1, v2c management MIB-II, private MIB for PoE control, Event traps
DC Power Input	Screwed terminal block: 2 pairs of +/- contacts DC jack: -D 6.3mm/+D 2.0mm Operating voltage range: +6.5 ~ +60VDC Voltage for PoE support: +44 ~ +54VDC
Power Consumption	9W max. with no PoE support 70W max. with 4 PoE PSE max. output
Housing	Enclosed metal with no fan
Dimension	40 x 106 x 140 mm (WxDxH)
Mounting Support	DIN-Rail, Panel Mounting (Optional)
Environment	Operating Temperature: -20°C ~ 60°C Storage Temperature: -20°C ~ 85°C Relative Humidity: 10% ~ 90% non-condensing
Approval	FCC Class A, CE mark Class A, EN60950-1 safety

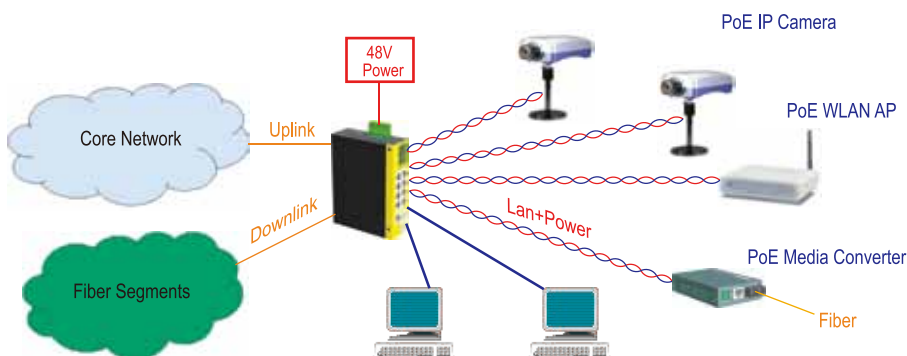
**Ordering Informations:**

KGD-802-B	Industrial L2 Gigabit Ethernet Switch (No PoE support, No transceiver installed)
KGD-802-B-P	Industrial L2 Gigabit Ethernet Switch with PoE support (No transceiver installed)

**Optional Accessories:**

Panel mounting kit (bracket & screws) for KGD-802-B and KSD-800  
AC Power adapter: input 100-240VAC, output 48VDC/24W, commercial rated, AC power cord  
KTI quality SFP transceivers

**Application:**



FCC Part 15, Class A  
CISPR 11 Class A

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