



KGS-1260/I



IEC 61850-3 IEEE 1613 Industrial Managed 12-Port L2 GbE Switches with 4 dual-speed SFP Slots

Product Highlights:

- IEEE 61850-3 compliance
- IEEE 1613 compliance
- Web, telnet, SNMP managed
- IPv6 support
- 4 SFP dual speed support
- Redundant power input
- RSTP, STP, MSTP support
- Multi redundant ring support
- IGMP & MLD snooping

Key Features:

- Eight 10/100/1000Mbps RJ-45 and four dual-speed SFP slots
- Four SFP slots support dual speed for 100BASE-FX and 1000BASE-X SFP transceivers.
- All copper ports support auto-negotiation and auto-MDI/MDI-X detection.
- Full wire speed forwarding for all 12 Gigabit switched ports
- Supports 802.3x flow control for full-duplex and backpressure for half-duplex
- Supports SFP with Digital Diagnostic Monitoring (DDM)
- Powered via typical industrial power voltage DC 12V-60V
- Provides Optical Power Alarm (OPA) function
- Provides Automatic Laser Shutdown (ALS) function
- Private MIB for DDM monitoring, Remote booting, and TFTP firmware update over SNMP

Management Features:

- Management:
 - HTTP/HTTPS/SSHv2/CLI telnet/CLI console/SNMP v1/v2c/v3/RMON
 - DHCP/DHCPv6 client, DNS client. NTPv4
 - IPv6 support, System Syslog, Configuration down/upload, Software upload
- Security:
 - NAS, 802.1X, MAC-based/Web/CLI authentication
 - IP MAC binding, TACACS+, IP source guard
- Layer 2:
 - QoS, 802.1Q/MAC-based/Protocol-based/Private/IP subnet VLAN, Port Isolation
 - Storm control for UC/MC/BC packets
 - LACP port link aggregation
 - Static MAC configuration
 - IGMP v2/v3 snooping, MLD v1/v2 snooping, DHCP snooping
 - Multiple Spanning Tree – MSTP, RSTP, STP
- KTI's Auto Multi-Ring (KAMR) Technology:
 - Fast failover response time, Auto ring recovery when failure is repaired
 - Supports up to six redundant rings, Works with RSTP network
 - Supports ring member status monitoring for up to 100 units

Specifications:

Standard	IEEE 802.3, 802.3ab, 802.3z, 802.3x, 802.1x, 802.1w, 802.1D, 802.1Q
Network Ports	8 10/100/1000Mbps Gigabit copper ports, 4 1G/100Mbps fiber ports
Copper Port	Shielded RJ-45, 10/100/1000Mbps, auto-negotiation, auto-MDI/MDI-X support
Fiber Port	SFP connector Interface: 1000BASE-X and 100BASE-FX support Far end fault support for 100BASE-FX Remote fault support for 1000BASE-X

EMI EMS Safety Environmental Tests:

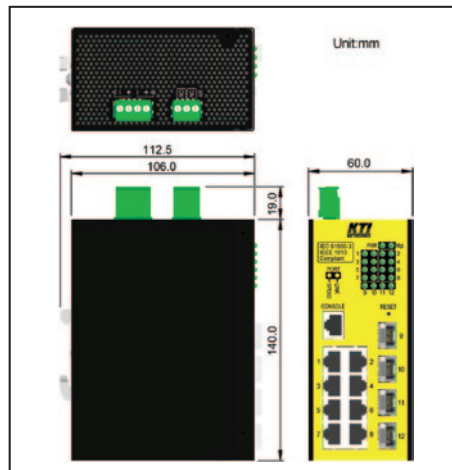
Test	Standard	Specifications
FCC/EMI	FCC Rule Part 15	Class A
CE/EMC/EMI	EN 55032	Class A
CE/EMC/EMS	EN 55024	
ESD Test	IEC 61000-4-2	Contact: +/-8kV Air: +/-15kV
RS Test	IEC 61000-4-3	Strength: 20V/m
EFT/BURST	IEC 61000-4-4	DC IN: +/-4kV RJ-45: +/-4kV
Surge Immunity	IEC 61000-4-5	DC IN: +/-1kV RJ-45: +/-4kV
CS Test	IEC 61000-4-6	Level 3
Magnetic Field Imm.	IEC 61000-4-8	50/60Hz, 100A/m, 60s 50/60Hz, 1000A/m, 1s
Main Frequency Volt.	IEC 61000-4-16	Power: 300V Signal: 300V
Ripple on DC power	IEC 61000-4-17	10%
DOW Test	IEC 61000-4-18	Power: +/-2.5 Signal: +/-2.5
DC Dips	IEC 61000-4-29	Dips: 60% & 30%, 0.1s Interruption: 100%, 0.05s
Safety	EN 60950-1	
Dielectric Voltage	IEEE 802.3	TP, 1500VAC/60sec.
Insulation Resistance	IEEE 802.3	TP, 500VDC/10Mohm
Cold Test	IEC 60068-2-1 Ad	-40°C, 72hrs
Dry Heat Test	IEC 60068-2-2 Bd	+70°C, 30%RH, 72hrs
Damp Heat Test	IEC 60068-2-3 Ca	+70°C, 95%RH, 72hrs
Storage Test	IEC 60068-2-48	-40°C, 96hrs +85°C, 30%RH, 96hrs
Vibration Test	IEC 60068-2-64 Fh	10-150Hz, 2.0 g/Hz
Shock Test	IEC 60068-2-27 Ea	30G

Console	Connector: Shielded RJ-45, Interface: RS-232
Network Cables	10/100/1000Mbps copper: Cat.5 up to 100m Fiber port: 62.5/125µm, 50/125µm MM fiber, 9/125µm SM fiber
MAC Addresses	Table with 8K entries
Buffer Memory	4Mbits
LED Indication	Per unit: Power, Management status Per port: Speed, link/activity status Per SFP: Speed/link/activity status
Relay Output	Alarm: power failure, specific port link fault, OPA, ALS Interface: 3 terminal dry contacts (30VDC/1A max. or 120VAC/0.5A max.) NO-Common-NC
DC Power Input	Terminal block: 2 pairs of +/- contacts Redundant power input VA+/-, VB+/- Polarity reversal protection - shutdown Operating voltage range: +12 ~ +60VDC
Power Consumption	10W max.
Housing Enclosed	metal with no fan
Dimension	60 x 106 x 140 mm (WxDxH)
Mounting Support	DIN-Rail, Panel Mounting (Optional)
Environment	Operating Temperature: -30°C ~ 70°C Storage Temperature: -40°C ~ 85°C Relative Humidity: 5% ~ 95% non-condensing
Approval	FCC/CE/VCCI Class A, LVD/IEC60950-1 safety, EN 55032 emission, EN 55024 Immunity for industrial environment EN 61000-3-2, EN 61000-3-3, IEC 60068-2-64 Vibration, IEC 60068-2-27 shock 30G test, IEC 61850-3 EMC, IEC 61850-3 environment, IEEE 1613

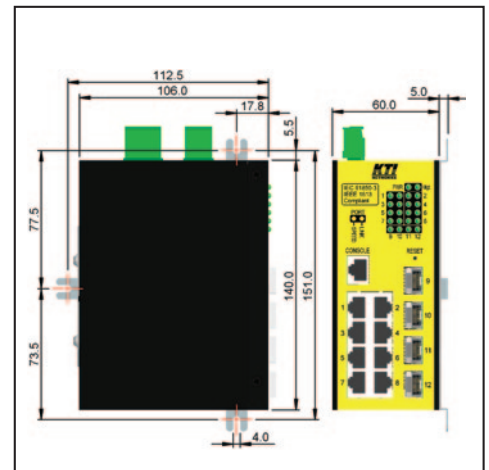


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DIN-Rail Dimension



Panel Dimension