



# KGC-460



**Preliminary**



## Product Highlights:

- Multi-functional
- 3 media converter modes
- Ethernet switch mode
- Web, telnet, SNMP managed
- IPv6 support
- Optional 802.3at PoE PSE

## Multi-function modes

<b>2MC Mode</b>
Dual independent media converters in one
LFPT, IGMP, LLDP, DDM, PoE support
<b>2C1F MC Mode</b>
Dual media converters sharing redundant fiber
LFPT, IGMP, LLDP, LACP, DDM, PoE support
<b>F2F MC Mode</b>
Fiber to Fiber media converter
LFPT, IGMP, LLDP, DDM support
<b>4P Switch Mode</b>
4-port Gigabit Ethernet switch
Full specified management features

## Industrial Managed Multi-function GbE Media Converter with PoE+ Support

### Key Features:

- Provides 2 10/100/1Gbps copper ports and 2 dual-speed SFP fiber port slots
- Supports 802.3x flow control for full-duplex and backpressure for half-duplex
- All copper ports support auto-negotiation and auto-MDI/MDI-X detection
- Dual-speed SFP slots support 100BASE-FX and 1000BASE-X SFP
- SFP featured with Digital Diagnostic Monitoring (DDM) support
- Multiple functions in one:
  - Dual media converts mode
  - Dual media converters sharing redundant fiber mode
  - Fiber to fiber media converter mode
  - 4-port switch mode
- Link fault pass through (LFPT) featured for all media converter modes
- Redundant ring function featured for 4-port switch mode
- Supports Gigabit full wire speed bridging & forwarding performance
- Jumbo frame support up to 9600 bytes
- Alarm relay output for events of power failure and configured port link down
- Green Ethernet power saving
- 802.3az Energy Efficient Ethernet (EEE) support
- Supports direct DC power input and powered via PoE alternatively
- Optional high power PoE PSE function on copper ports

### Management Features:

- Function mode configuration
- Management:
  - HTTP/HTTPS/SSHv2/CLI telnet/CLI console/SNMP v1/v2c/v3/RMON
  - DHCP/DHCPv6 client, DHCP relay, 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 VLAN, Storm control for UC/MC/BC packets,
  - 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 recovery when failure is repaired,
  - Works with RSTP network



### Ordering Informations:

Part#	Description
KGC-460	Standard model with no PSE function
KGC-460-HP	Model with two PSE ports

### Specifications:

Standard	IEEE 802.3, 802.3ab, 802.3z, 802.3x, 802.3at, 802.1x, 802.1w, 802.1D, 802.1Q
Network Ports	2 10/100/1000Mbps Gigabit copper ports 2 1G/100Mbps SFP slots
Copper Port	Shielded RJ-45, 10/100/1000Mbps, auto-negotiation, auto-MDI/MDI-X
Mini-GBIC SFP	SFP connector, Interface: 1000BASE-X and 100BASE-FX support
Network Cables	10/100/1000Mbps copper: Cat.5 up to 100m SFP fiber: 62.5/125µm, 50/125µm MM fiber, 9/125µm SM fiber
Power over Ethernet	IEEE 802.3at compliant (High power PoE) 30W max. at port output for Cat.5 distance of 100 meters
MAC Addresses	8K
LED Indication	Per unit: Power, Management status Per port: Speed, link/activity status Per SFP: Speed/link/activity status Per PoE port: PoE status
Relay Output	Alarm: power failure, configured port link fault Interface: 3 terminal contacts (30VDC/1A max. or 120VAC/0.5A max.)
DC Power Input	Screwed terminal block: DC +/- contacts Operating voltage range: +12 ~ +57VDC Voltage for PoE support: +45 ~ +57VDC
Powered via PoE	IEEE 802.3af & 802.3at compliant Class 3 (for model with no PSE function)
Power Consumption	6W@56V max. (Full load with no PoE support) 66W@56V max. (Full load with 2 PoE+ max. output)
Housing	Enclosed metal with no fan
Dimension	42 x 106 x 140 mm (WxDxH)
Mounting Support	DIN-Rail, Panel Mounting (Optional)
Environment	Operating Temperature: -40°C ~ 70°C Storage Temperature: -40°C ~ 85°C Relative Humidity: 5% ~ 95% non-condensing
Approval	FCC Class A, VCCI Class A, CE mark Class A, IEC 60950-1 safety EN55011 emission, EN61000-3-2, EN61000-3-3, EN61000-6-2 Immunity for industrial environment, IEC 60068-2-64 Vibration, IEC 60068-2-27 shock



FCC Part 15, Class A  
CISPR 11 Class A

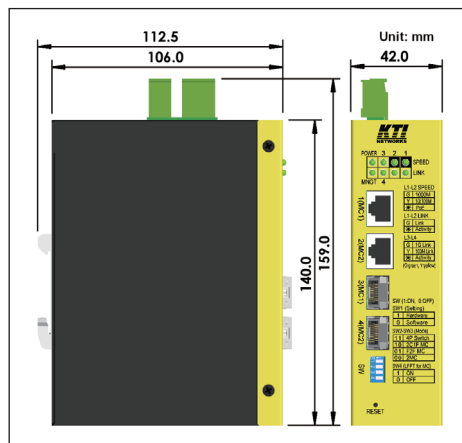
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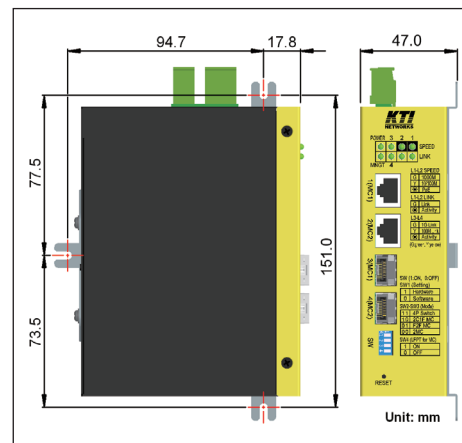
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DIN-Rail Dimension



Panel Dimension