KGC-460, KGC-460-HP

Security Upgrade

with TLS 1.2/1.3

NEMA TS-2

Shock Test 50G

Industrial Managed Multi-function GbE Media Converters with PoE+ Support

Multi-function modes

2MC Mode
Dual independent media converters in one

LFPT, IGMP, LLDP, DDM, PoE support

2C1F MC Mode
Dual media converters sharing redundant fiber

LFPT, IGMP, LLDP, LACP, DDM, PoE support

F2F MC Mode
Fiber to Fiber media converter

LFPT, IGMP, LLDP, DDM support

4P Switch Mode
4-port Gigabit Ethernet switch

Full specified management features

Key Features:
- Provide 2 10/100/1Gbps copper ports and 2 dual-speed SFP fiber port slots
- Support 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
- Support 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
- Optional high power PoE PSE function on copper ports

Management Features:
- Function mode configuration
- Management:
  HTTP/HTTPS/SSHv2/CLI telnet/SNMP v1/v2c/v3/RMON
  DHCP/DHCPv6 client, DHCP relay, DNS client, NTPv4
  IPv6 support, System Syslog, Configuration down/upload, Software upload
  HTTPS with TLS 1.2/1.3 support
- Security:
  NAS, 802.1X, MAC-based/Web/CLI authentication
  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
- KTI's PoE Redundancy function:
  Fast failover due to power off or link loss, Auto recovery when failure is repaired

Product Highlights:

- Multi-functional
- 3 media converter modes
- Ethernet switch mode
- Web, telnet, SNMP managed
- IPv6 support
- Optional 802.3at PoE PSE
- HTTPS with TLS 1.2/1.3 support

Ordering Informations:

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

EMI EMS Safety Environmental Tests:

| Test	Standard	Specifications
FCC/EMI	FCC Rule Part 15	Class A
CE/EMC/EMI	EN 61000-6-4	Class A
CE/EMC/EMS	EN 61000-6-2	
ESD Test	IEC 61000-4-2	Contact: +/-6kV
RS Test	IEC 61000-4-3	Strength: 10V/m
EFT/BURST	IEC 61000-4-4	DC IN: +/-2kV Signal: +/-1kV
Surge Immunity	IEC 61000-4-5	DC IN: +/-0.5kV Signal: 0.5kV
CS Test	IEC 61000-4-6	Level 3
Magnetic Field Imm.	IEC 61000-4-8	50Hz 30A/m
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℃, 72hrs
Dry Heat Test	IEC 60068-2-2 Bd	+75℃, 30%RH, 72hrs
Damp Heat Test	IEC 60068-2-3 Ca	+75℃, 95%RH, 72hrs
Storage Test	IEC 60068-2-48	-40℃, 96hrs +85℃, 30%RH, 96hrs +85℃, 95%RH, 96hrs
Vibration Test	IEC 60068-2-64 Fh	10~200Hz, 0.1g²/Hz 200~500Hz, 0.03g²/Hz
Shock test	IEC 60068-2-27 Ea	50G
NEMA TS2 Vibration test	NEMA TS2-2003 Proc, 2.2.8	5-30-5Hz, 0.5g
NEMA TS2 Environment test	NEMA TS2-2003 Proc, 2.2.7	Temp: -34℃~74℃ Humid: 0%~90%
Humidity Cyclic Test	IEC 60068-2-30 Db	25℃/55℃, 95%RH 24hrs, 2 cycles

![CE FC logos]

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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, 5e UTP or higher 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: +8 ~ +60VDC Voltage for PoE support: +45 ~ +57VDC Polarity reversal protection
Power Consumption	6W max.@56V (Full load with no PoE support) 66W max.@56V (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, Wall, Panel Mounting (Optional)
Environment	Operating Temperature: -40℃ ~ 75℃ Storage Temperature: -40℃ ~ 85℃ Relative Humidity: 5% ~ 95% non-condensing
Approval	FCC Class A, VCCI Class A, CE mark Class A, TUV EN 60950-1 safety EN 61000-6-4 emission, EN 61000-3-2, EN 61000-3-3, EN 61000-6-2 Immunity for industrial environment, IEC 60068-2-64 Vibration, IEC 60068-2-27 shock
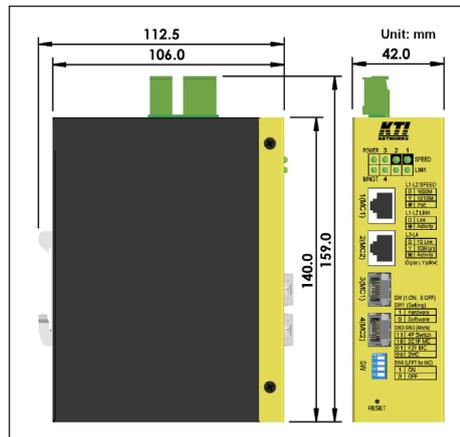
Din-Rail Mount Dimension
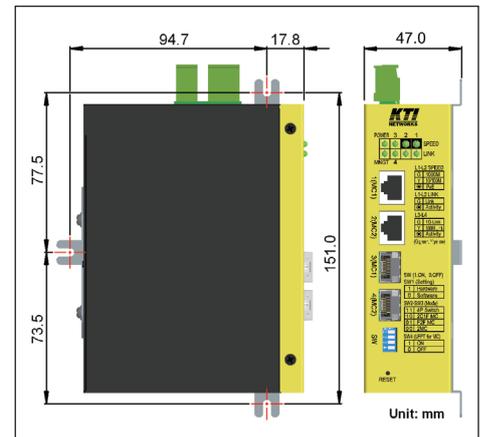
Panel & Wall Mount Dimension

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