



KTGC-221



Managed 10G Ethernet Multi-rate Media Converter

Product Highlights:

- Multi-rate support
 - 10G copper to fiber conversion
 - 5G copper to fiber conversion
 - 2.5G copper to fiber conversion
 - 1G copper to fiber conversion
- Web managed
- SNMP managed

Key Features:

- The device supports the following multi-rate and media conversion:
 - 10GBASE-T to 10GBASE-R conversion
 - 5GBASE-T to 5GBASE-R conversion
 - 2.5GBASE-T to 2500BASE-X conversion
 - 1000BASE-T copper to 1000BASE-X fiber conversion
- Full wire speed conversion and jumbo frame support
- Protocol transparent conversion
- The copper port supports auto-negotiation and provides auto-MDI/MDI-X function and polarity reverse correction function.
- Web-based management for configuration, diagnostics, port status and port test
- SNMP management support
- Digital Diagnostics Monitoring (DDM) function on fiber port
- IEEE 802.3az Energy Efficient Ethernet support (EEE)
- Supports desktop, wall, and Din-rail mounting

Specifications:

Standard	IEEE 802.3, 802.3u, 802.3ab, 802.3z, 802.3az, 802.3an Copper interface: 10G/5G/2.5GBASE-T, 1000BASE-T, 100BASE-TX Fiber: 10GBASE-R, 5GBASE-R, 2500BASE-X, 1000BASE-X
Copper Port	Shielded RJ-45 10G/5G/2.5G/1Gbps, Full/Half duplex Auto-negotiation, Auto-MDI/MDI-X, Polarity reverse correction
Fiber Port	SFP+ slot for SFP or SFP+ fiber transceiver 10G/5G/2.5G/1Gbps, Full duplex DDM support
Network Cables	Copper port: Cat.5, 5e UTP or higher for 1000BASE-T up to 100m, Cat.6a or better for 10G/5G/2.5GBASE-T up to 100m Fiber port: MMF 50/125µm, 62.5/125µm, SMF 9/125µm Active Optical Cable (AOC), Direct Attach Cable (DAC) 1m
Management Port	Shielded RJ-45, 10/100/1000BASE-T interface
LED Indication	Power status, Management port link status, Line rate Copper port link status, SFP+ port link status
DC Power Input	DC jack: -D 6.3mm/ +D 2.0mm Operating voltage range: +12V ~ +48VDC Power consumption 9W max. Polarity reversal protection
Power Supply	External AC-DC power adapter Rated input 100~240VAC, 50/60Hz, output +12V/1A



Ordering Information:

KTGC-221-SR

10GBASE-T to 10GBASE-SR
media converter

KTGC-221-LR

10GBASE-T to 10GBASE-LR
media converter

KTGC-221-ER

10GBASE-T to 10GBASE-ER
media converter

KTGC-221-ZR

10GBASE-T to 10GBASE-ZR
media converter

For ordering information about optional fiber transceivers, refer to datasheet of KTI SFP/SFP+ fiber transceivers.



Katron Technologies Inc.

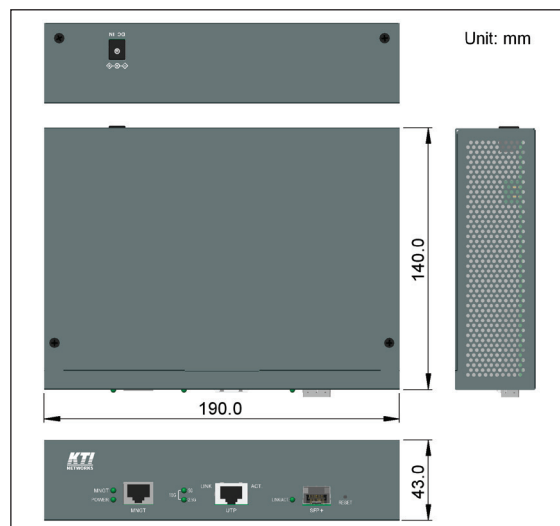
15F-7, No. 79, Sec. 1, Hsin Tai Wu Rd.,
Hsi-chih District, New Taipei City, Taiwan
Tel: 886-2-2698-3878
Fax: 886-2-2698-3873
E-mail: kti@ktinet.com.tw
URL: <http://www.ktinet.com.tw>

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Housing	Enclosed metal with no fan
Environment	Operating temperature: -30°C ~ 50°C Storage temperature: -40°C ~ 85°C Relative humidity: 5% ~ 95% non-condensing
Dimension	190 x 140 x 43 mm (WxDxH)
Mounting Support	Desktop, Din-rail mount (with optional bracket KC-4DR), Wall mount
MTBF	216K hours
Approval	FCC Class A, VCCI Class A, CE mark Class A, LVD/IEC 62368-1 safety EN 55032 emission, EN 55024 immunity, IEC 60068-2-64 vibration, IEC 60068-2-27 shock 50G test
Management	Web, SNMP, SNMP trap

10G Fiber Optical Specifications:

Ext. Code	Fiber	Distance	Wavelength	Tx Power	Rx Sens.	Rx Max.
-SR	OM1 MMF	32m	850nm	-7.1 ~ -1dBm	-9.9dBm	-1dBm
	OM2 MMF	82m				
	OM3 MMF	300m				
	OM4 MMF	400m				
-LR	SMF	10km	1310nm	-6 ~ -0.5dBm	-14.4dBm	0.5dBm
-ER	SMF	40km	1550nm	-4.7 ~ 4dBm	-15.8dBm	-1dBm
-ZR	SMF	80km	1550nm	0 ~ 4dBm	-23dBm	-7dBm



Dimension