



KGC-260



Industrial Managed 10/100/1000Base-T to Dual-speed Fiber Media Converters

Product Highlights:

- Tri-speed copper to dual-speed fiber conversion
- LFPT function
- Web & SNMP management
- 802.1Q Control
 - Packet type, VID filtering
 - 802.1Q tag stripping & tagging
 - 802.1ad Q-in-Q support
 - 802.1ad S-tag tagging
- OPA function
- ALS function

Key Features:

- Tri-speed 10/100M/1Gbps copper to dual-speed 100M/1Gbps fiber conversion
- Comply with IEEE 802.3, 802.3u, 802.3ab, 802.3z standard
- Support full wire speed conversion for Gigabit copper to Gigabit fiber
- Support auto-negotiation with link partners
- Provide dual-speed SFP on fiber port for mounting variety of fiber options
- Provide important LFPT (Link Fault Pass Through) media converter function
- Support Jumbo frame conversion
- Energy efficient ethernet (EEE) support
- Alarm events relay output
- Optical Power Alarm (OPA) function
- Auto Laser Shutdown (ALS) function
- Ideal solution for multimode, short reach up to long reach single mode fiber, Bi-Di applications
- Web-based configuration management support
- Support SNMP management

Specifications:

Standard	IEEE 802.3, 802.3u, 802.3ab, 802.3z, 802.1ad, 802.3az, 802.1Q
Copper Port	Shielded RJ-45, 10/100/1000Mbps, Full/Half duplex Auto-negotiation, Auto-MDI/MDI-X
Fiber Port	SFP connector with pre-configured SFP fiber transceiver 100Mbps/1Gbps Full duplex, Auto-negotiation Far End Fault support
Network Cables	Copper port: Cat.5e recommended or higher up to 100m Fiber port: MMF 50/125µm, 62.5/125µm, SMF 9/125µm
LED Indication	Unit: Power status Per port: 1G/Link/Activity, 10-100/Link/Activity
Jumbo Frame size	Up to 9.6K bytes
DC Power Input	Screwed terminal block: DC+/ DC- contacts Working voltage range: +12 ~ +30VDC Polarity reversal protection
Relay Output	Screwed terminal block: 3 dry contacts for NC & NO pairs Contact rating: 30VDC/1A or 120VAC/0.5A Alarm events: power failure, configured port link fault, OPA
Power Consumption	4.2W max.



Approval:

FCC Class A, VCCI Class A,
CE mark Class A,
IEC60950-1 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 50G test,
IEC 60068-2-27 Bump 25.5G test,
NEMA TS2 environment,
EN 50121-4 Railway environment

EMC 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 Air: +/-8KV
RS Test	IEC 61000-4-3	Strength: 20V/m
EFT/BURST	IEC 61000-4-4	DC IN: 2KV Signal: 2KV
Surge Immunity	IEC 61000-4-5	DC IN: 1KV Signal: 2KV
CS Test	IEC 61000-4-6	Level 3
Magnetic Field Imm.	IEC 61000-4-8	50/60Hz, 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°C, 72hrs
Dry Heat Test	IEC 60068-2-2 Bd	+75°C, 30%RH, 72hrs
Damp Heat Test	IEC 60068-2-3 Ca	+75°C, 95%RH, 72hrs
Storage Test	IEC 60068-2-48	-40°C, 96hrs +85°C, 30%RH, 96hrs +85°C, 95%RH, 96hrs
Vibration Test	IEC 60068-2-64 Fh	10-200Hz, 0.1g/Hz 200-500Hz, 0.03g/Hz
Vibration Test	IEC60068-2-6 Fc	5-200Hz, 1G, Sinusoidal
Shock test	IEC 60068-2-27 Ea	50G
Bump test	IEC 60068-2-27 Ea	25.5G, 1000times
NEMA TS2 Vibration test	NEMA TS2-2003 Proc. 2.2.8	10G
NEMA TS2 Environment test	NEMA TS2-2003 Proc. 2.2.7	Temp: -34°C~74°C Humid: 0%~90%
Humidity Cyclic Test	IEC 60068-2-30 Db	25°C/85°C, 95%RH 24hrs, 2 cycles



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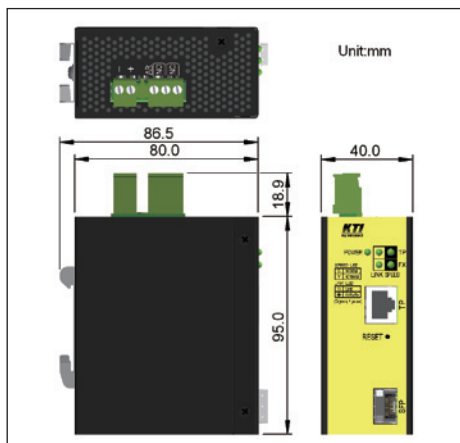
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Housing	Enclosed metal with no fan
Environment	Operating Temperature: -40°C ~ 75°C Storage Temperature: -40°C ~ 85°C Relative Humidity: 5% ~ 95% non-condensing
Dimension	40 x 80 x 95 mm (WxDxH)
Mounting Support	DIN-Rail, Panel (optional)
MTBF	430K hours min
Management:	
Management	Web-based browser interface, SNMP manager
Port Control	Operating mode, Flow control, LLDP
Packet Filtering	802.1Q tagged packet filtering, Untagged packet filtering
802.1Q VLAN	Ingress 802.1Q tag stripping, Egress 802.1Q tagging (tag insertion) S-tag tagging (802.1ad double tagging)
Maintenance	Restore factory default, reboot, firmware update
SNMP Trap	Trap events: Bootup, Login failure, Port link changes, OPA
SNMP Private MIB	DDM, Remote boot, OPA
Power saving	Disable, Link Up, Link Down, Full

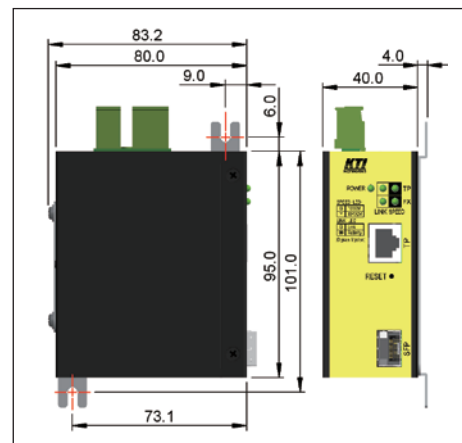
Fiber Optical Specifications:

1Gbps	Fiber Port	Wavelength	Tx Power*	Rx Sens.	Rx Max.	Distance*
-SX	LC 62.5/125 MMF 50/125 MMF	850nm	-9.5 ~ -4dBm	-18dBm	0Bm	220m 500m
-LX	LC MMF SMF	1310nm	-9.5 ~ -3dBm	-20dBm	-3dBm	550m 10km
-LX20	LC SMF	1310nm	-8 ~ -2dBm	-23dBm	-1dBm	20km
-LX70	LC SMF	1550nm	0 ~ +5dBm	-24dBm	-3dBm	70km
-W3510	Bi-Di LC SMF	Tx 1310nm Rx 1550nm	-9 ~ -3dBm	-21dBm	-1dBm	10km
-W5310	Bi-Di LC SMF	Tx 1550nm Rx 1310nm	-9 ~ -3dBm	-21dBm	-1dBm	10km
100Mbps	Fiber Port	Wavelength	Tx Power*	Rx Sens.	Rx Max.	Distance*
-FM	LC MMF	1310nm	-20 ~ -14dBm	-31dBm	0dBm	2km
-FS30	LC SMF	1310nm	-15 ~ -8dBm	-34dBm	0dBm	30km

* Tx Power data for 62.5/125µm MMF, 9/125µm SMF
Distance: reference connection distance



DIN-Rail Dimension



Panel Dimension