



# KGC-300



## 1000Base-T to 1000Base-X Gigabit Media Converters

### Product Highlights:

- Full wire speed performance
- SFP flexibility
- Low power consumption
- Optional Din-Rail mounting
- Center Chassis installation support
- Options for Bi-Di communication
- Options for CWDM

KC-3DR :  
Din-Rail mounting bracket



KC-1300 :  
Managed center chassis



The Gigabit media converter is designed to convert 1000Base-T signals to/from 1000Base-X fiber signals. It is used to extend the connection distance between two Gigabit Ethernet devices via fiber cable transparently with no performance degradation.

With the SFP (Mini-GBIC) connector design, the media converter not only supports existing variety of multimode and single mode fibers, but also preserves the flexibility to adapt to any change of your fiber network in the future. It also supports center chassis installation with optional power redundancy and management features when a larger fiber network is required. With pre-configured fiber transceivers, the converter also can support Bi-Di WDM and CWDM fiber network applications.

### Key Features:

- Comply with IEEE 802.3ab 1000Base-T, 802.3z 1000Base-SX/LX standard
- Provide direct media conversion for Gigabit copper and Gigabit fiber
- Support full wire speed conversion
- Support transparent conversion of any packet types with no packet length limitation
- Support auto-negotiation with link partners
- Provide link pass through between copper and fiber link
- Provide SFP on fiber port for mounting variety of fiber options
- Support optional Din-Rail installation
- Support center chassis installation to achieve the advantages of central power, optional power redundancy and management
- Ideal solution for multimode, short reach up to long reach single mode fiber, Bi-Di and CWDM applications

### Specifications:

Standard	IEEE 802.3ab, 802.3z
Copper Port	Shielded RJ-45, 1000Mbps, Auto-negotiation capable, Auto-MDI/MDI-X
Fiber Port	SFP connector with pre-configured SFP fiber transceiver 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	Power status, SFP On status, Link status, Optical link status
Mounting	Desktop, Wall, Din-Rail (optional), Center chassis
Center Chassis	Up to 16 units in one rack chassis with one central power Support optional power redundancy and management
Power Input	+5 ~ +12VDC (+/-5%) Consumption 2W max.@7.5V



## Ordering Information:

Model	Fiber		Distance
-	No SFP Transceiver		
-SX	LC	850	500m 200m
-LX	LC	1310	MMF SMF
-LX20	LC	1310	SMF
-LX30	LC	1310	SMF
-LX50	LC	1550	SMF
-LX70	LC	1550	SMF
-W3510	LC	Tx1310 Rx1550	Bi-Di SMF
-W5310	LC	Tx1550 Rx1310	Bi-Di SMF
-W3520	LC	Tx1310 Rx1550	Bi-Di SMF
-W5320	LC	Tx1550 Rx1310	Bi-Di SMF
-W3540	LC	Tx1310 Rx1550	Bi-Di SMF
-W5340	LC	Tx1550 Rx1310	Bi-Di SMF
-W3410	LC	Tx1310 Rx1490	Bi-Di SMF
-W4310	LC	Tx1490 Rx1310	Bi-Di SMF
-W3410S	SC	Tx1310 Rx1490	Bi-Di SMF
-W4310S	SC	Tx1490 Rx1310	Bi-Di SMF
-ESX	LC	850	MMF
-ELX	LC	1310	SMF



FCC Part 15, Class B  
CISPR 22 Class B

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Environment      Operation Temperature: -5°C ~ 55°C  
Storage Temperature      -20°C ~ 85°C  
Relative Humidity:      10% ~ 90% non-condensing

Dimension      108 x 72.5 x 23 mm (WxDxH)

Approval      FCC Class B, CE mark, CISPR 22 Class B

## Fiber Ordering Information:

Model Ext.	Fiber Port	Wavelength	Tx Power	Rx Sens.	Rx. max.
-SX	LC MMF	850nm	-9.5 ~ -4dBm	-18dBm	-1dBm
-LX	LC SMF	1310nm	-9.5 ~ -3dBm	-20dBm	-3dBm
-LX20	LC SMF	1310nm	-8 ~ -2dBm	-23dBm	-1dBm
-LX30	LC SMF	1310nm	-4 ~ +3dBm	-23dBm	-3dBm
-LX50	LC SMF	1550nm	-4 ~ +1dBm	-23dBm	-3dBm
-LX70	LC SMF	1550nm	0 ~ +5dBm	-23dBm	-3dBm
-W3510	Bi-Di LC SMF	Tx 1310nm Rx 1550nm	-9 ~ -3dBm	-21dBm	-3dBm
-W5310	Bi-Di LC SMF	Tx 1550nm Rx 1310nm	-9 ~ -3dBm	-21dBm	-3dBm
-W3520	Bi-Di LC SMF	Tx 1310nm Rx 1550nm	-8 ~ -3dBm	-23dBm	-3dBm
-W5320	Bi-Di LC SMF	Tx 1550nm Rx 1310nm	-8 ~ -3dBm	-23dBm	-3dBm
-W3540	Bi-Di LC SMF	Tx 1310nm Rx 1550nm	-3 ~ +2dBm	-23dBm	-1dBm
-W5340	Bi-Di LC SMF	Tx 1550nm Rx 1310nm	-3 ~ +2dBm	-23dBm	-1dBm
-W3410	Bi-Di LC SMF	Tx 1310nm Rx 1490nm	-9 ~ -3dBm	-20dBm	-3dBm
-W4310	Bi-Di LC SMF	Tx 1490nm Rx 1310nm	-9 ~ -3dBm	-20dBm	-3dBm
-W3410S	Bi-Di SC SMF	Tx 1310nm Rx 149nm	-9 ~ -3dBm	-20dBm	-3dBm
-W4310S	Bi-Di SC SMF	Tx 1490nm Rx 1310nm	-9 ~ -3dBm	-20dBm	-3dBm

### Extended operating temperature -10 ~ 70°C

-ESX	LC MMF	850nm	-9.5 ~ -4dBm	-18dBm	-1dBm
-ELX	LC SMF	1310nm	-9.5 ~ -3dBm	-20dBm	-3dBm