KGC-301

10/100/1000Base-T to 100/1000Base-X Media Converters

Product Highlights:

- Full wire speed performance
- SFP flexibility
- Manual port configuration
- Link fault pass through function
- Low power consumption
- Center Chassis installation support
- Options for Bi-Di communication
- Options for CWDM

DIN-Rail Mounting Bracket
KC-3DR

Center Chassis

The media converter is designed to convert three different line rates of copper Ethernet signals to/from two line rates of fiber signals. It is used to extend the connection distance up to 70km or more between two Gigabit Ethernet devices via fiber cable transparently with no performance degradation. With the SFP 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 deployment is required. With pre-configured fiber transceivers, the converter also can support Bi-Di WDM and CWDM fiber network applications

Key Features:

- Tri-speed 10/100/1000Mbps copper to dual-speed 1G/100Mbps fiber conversion
- Support full wire speed conversion
- Support jumbo frame conversion
- Provide direct conversion with shortest latency between two links in same line rates
- Support transparent conversion of any packet types with no packet modification
- Support auto-negotiation with link partners
- Provide link fault pass through function for media converter applications
- Provide SFP slot on fiber port for mounting variety of fiber options
- Support center chassis installation to achieve the advantages of central power, optional power redundancy and management

Specifications:

Standard	IEEE 802.3i, 802.3u, 802.3z, 802.3ab, 802.3az
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 1G/100Mbps, Full duplex, Auto-negotiation FEFI (100FX), Remote fault signaling (1000FX)
Network Cables	Copper port: Cat.5e recommended or higher up to 100m Fiber port: MMF 50/125µm, 62.5/125µm, SMF 9/125µm
Port-to-Port Latency	1µs (Cut-through latency at all frame size conversion)
LED Indication	Power status, port link status, port speed 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:

KGC-301-X

Model Ext.	1000M Fiber			Distance
-	No SFP Transceiver			
-SX	LC	850	50/125 62.5/125	500m 200m
-LX	LC	1310	MMF SMF	550m 10km
-LX20	LC	1310	SMF	20km
-LX30	LC	1310	SMF	30km
-LX50	LC	1550	SMF	50km
-LX70	LC	1550	SMF	70km
-W3510	LC	Tx1310 Rx1550	Bi-Di SMF	10km
-W5310	LC	Tx1550 Rx1310	Bi-Di SMF	10km
-W3520	LC	Tx1310 Rx1550	Bi-Di SMF	20km
-W5320	LC	Tx1550 Rx1310	Bi-Di SMF	20km
-W3410	LC	Tx1310 Rx1490	Bi-Di SMF	10km
-W4310	LC	Tx1490 Rx1310	Bi-Di SMF	10km
-W3410S	SC	Tx1310 Rx1490	Bi-Di SMF	10km
-W4310S	SC	Tx1490 Rx1310	Bi-Di SMF	10km

Model Ext.	100M Fiber			Distance
-FM	LC	1310	MMF	2km
-FS30	LC	1310	SMF	30km
-FS60	LC	1310	SMF	60km
-FS100	LC	1550	SMF	100km
-FW3520	LC	Tx1310 Rx1550	Bi-Di SMF	20km
-FW5320	LC	Tx1550 Rx1310	Bi-Di SMF	20km

KC-3DR	DIN-Rail mounting bracket
KC-1300	Managed center chassis

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Environment	Operating Temperature:	-40°C ~ 70°C (Main device) 0°C ~ 40°C (External power adapter)
	Storage Temperature:	-40°C ~ 85°C
	Relative Humidity:	5% ~ 90% non-condensing
Dimension	72.5 x 108 x 23 mm (WxDxH)	
Approval	FCC Class A, CE mark Class A, VCCI Class A, LVD	

Fiber Optical Specifications:

Model Ext.	1000M Fiber	Wavelength	Tx Power*	Rx Sens.	Rx Max.
-SX	LC MMF	850nm	-9.5 ~ -4dBm	-18dBm	0Bm
-LX	LC SMF	1310nm	-9.5 ~ -3dBm	-20dBm	-3dBm
-LX20	LC SMF	1310nm	-8 ~ -2dBm	-23dBm	-1dBm
-LX30	LC SMF	1310nm	-4 ~ +1dBm	-24dBm	-3dBm
-LX50	LC SMF	1550nm	-4 ~ +1dBm	-24dBm	-3dBm
-LX70	LC SMF	1550nm	0 ~ +5dBm	-24dBm	-3dBm
-W3510	Bi-Di LC SMF	Tx 1310nm Rx 1550nm	-9 ~ -3dBm	-21dBm	-1dBm
-W5310	Bi-Di LC SMF	Tx 1550nm Rx 1310nm	-9 ~ -3dBm	-21dBm	-1dBm
-W3520	Bi-Di LC SMF	Tx 1310nm Rx 1550nm	-8 ~ -2dBm	-23dBm	-1dBm
-W5320	Bi-Di LC SMF	Tx 1550nm Rx 1310nm	-8 ~ -2dBm	-23dBm	-1dBm
-W3410	Bi-Di LC SMF	Tx 1310nm Rx 1490nm	-9 ~ -3dBm	-21dBm	-1dBm
-W4310	Bi-Di LC SMF	Tx 1490nm Rx 1310nm	-9 ~ -3dBm	-21dBm	-1dBm
-W3410S	Bi-Di SC SMF	Tx 1310nm Rx 1490nm	-9 ~ -3dBm	-21dBm	-1dBm
-W4310S	Bi-Di SC SMF	Tx 1490nm Rx 1310nm	-9 ~ -3dBm	-21dBm	-1dBm

Model Ext.	100M Fiber	Wavelength	Tx Power*	Rx Sens.	Rx Max.
-FM	LC MMF	1310nm	-20 ~ -14dBm	-31dBm	-8dBm
-FS30	LC SMF	1310nm	-15 ~ -8dBm	-34dBm	0dBm
-FS60	LC SMF	1310nm	-5 ~ 0dBm	-35dBm	0dBm
-FS100	LC SMF	1550nm	-5 ~ 0dBm	-35dBm	0dBm
-FW3520	Bi-Di LC SMF	TX 1310nm RX 1550nm	-14 ~ -8dBm	-32dBm	0dBm
-FW5320	Bi-Di LC SMF	TX 1550nm RX 1310nm	-14 ~ -8dBm	-32dBm	0dBm

*Data for 62.5/125μm MMF, 9 /125μm SMF