



KGC-310M



Web Smart 10/100/1000Base-T to 1000Base-X Gigabit Media Converter

Product Highlights:

- 10/100/1000M copper to 1000M fiber conversion
- SFP fiber port flexibility
- Fiber link loop back test
- Remote Copper link monitoring
- Optional DIN-Rail mounting
- Center Chassis support
- Web management support
- Traffic control functions
 - Port control and monitoring
 - Flow control
 - Packet type filtering
 - 802.1Q VLAN support
 - Tag stripping
 - Tag insertion
 - Q-in-Q support
 - QoS support
 - Jumbo frame support
- SNMP trap for port link change
- Firmware update

DIN-Rail Mounting Bracket
A24-5002-000 (KC-3DR)



Key Features:

- Tri-speed 10/100/1000Mbps copper to 1000M 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 SFP on fiber port for mounting variety of fiber options
- Provide loop back test function with link partner over fiber link
- Provide monitoring function for remote link partner's copper link status
- Support optional DIN-Rail installation
- Support center chassis installation to achieve the advantages of central power, optional power redundancy and network management
- Ideal solution for multimode, short reach up to long reach single mode fiber, Bi-Di applications
- Web-based configuration management support
- Port operating mode, flow control and status monitoring functions
- Tagged or untagged packet filtering
- 802.1Q VLAN tag stripping and tagging
- Support Q-in-Q application with double tag capability
- Quality of Service (QoS) function with 8021.p, DSCP priority classifications
- Support SNMP trap for port link change
- Support Jumbo frame conversion

Specifications:

Standard	IEEE 802.3, 802.3u, 802.3ab, 802.3z
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 1000Mbps 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
DIP Switches	Copper port operating mode Flow control Auto report for remote copper link status
LED Indication	Power status Local copper port status - link, speed, duplex Local fiber port link status Remote copper port status - link, speed, duplex Loop back test status
Jumbo Frame size	Support 9600 bytes max.
Loop Back Test	Push button to start loop back test with link partner over fiber link
Mounting	Desktop, Wall, DIN-Rail (optional), Center chassis



Ordering Informations:

Model KGC-310M -XX	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
KC-3DR	DIN-Rail mounting bracket			
KC-1300	Managed center chassis			



FCC Part 15, Class B
CISPR 22 Class B

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Center Chassis Up to 16 units in one rack chassis with central power
Support optional power redundancy and management

Power Input +5 ~ +12VDC (+/-5%)
Consumption 2.5W max. @7.5V

Environment Operating 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, C-Tick

Management:

Management Web-based browser interface

Port Control Operating mode, Flow control

Packet Filtering 802.1Q tagged packet filtering, Untagged packet filtering

802.1Q VLAN Ingress 802.1Q tag stripping, Egress 802.1Q tagging (tag insertion)

QoS Four priority levels
802.1p, DSCP - based priority classifications
Service policy - strict priority, WFQ (Weighted Fairness Queuing)

Monitoring Local Port status, Remote Port status, Port statistics

Maintenance Restore factory default, reboot, firmware update

SNMP Trap Trap events: Boot up, Login failure, Copper port link change,
Fiber port link change

Fiber Optical Specifications:

Model	Fiber Port	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 ~ +1Bm	-24dBm	-3dBm
-LX50	LC SMF	1550nm	-4 ~ +1dBm	-24dBm	-3dBm
-LX70	LC SMF	1550nm	0 ~ +5dBm	-2dBm	-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	-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	-20dBm	-3dBm
-W4310	Bi-Di LC SMF	Tx 1490nm Rx 1310nm	-9 ~ -3dBm	-20dBm	-3dBm
-W3410S	Bi-Di SC SMF	Tx 1310nm Rx 1490nm	-9 ~ -3dBm	-20dBm	-3dBm
-W4310S	Bi-Di SC SMF	Tx 1490nm Rx 1310nm	-9 ~ -3dBm	-20dBm	-3dBm