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
- SNMP trap for port link change
- Firmware update

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
- Supports SNMP trap for port link change

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
Loop Back Test	Push button to start loop back test with link partner over fiber link
Mounting	Desktop, Wall, Din-Rail (optional), Center chassis
Center Chassis	Up to 16 units in one rack chassis with central power Support optional power redundancy and management

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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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 A, CE mark,CISPR 22 Class A
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	-1dBm
-LX	LC SMF	1310nm	-9.5 ~ -3dBm	-20dBm	-3dBm
-LX20	LC SMF	1310nm	-7 ~ 0dBm	-24dBm	-3dBm
-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
-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