



KGC-320-HP



Managed 10/100/1000Base-T to Dual-speed Fiber Media Converter with PoE+ Support

Product Highlights:

- Tri-speed copper to dual-speed fiber conversion
- SFP fiber port flexibility
- Fiber link loop back test
- Remote Copper link monitoring
- Web and SNMP management support
- Traffic control functions
 - Port control and monitoring
 - Flow control
 - Packet type filtering
 - 802.1Q VLAN support
 - Tag stripping
 - Tag insertion
 - IGMP snooping
 - Q-in-Q support
- SNMP trap for port link change
- Firmware update
- High power PoE+ PSE

Key Features:

- Tri-speed 10/100/1000Mbps copper to dual-speed 100/1000Mbps fiber conversion
- Comply with IEEE 802.3, 802.3u, 802.3ab, 802.3z standard
- Support full wire speed copper to fiber Gigabit conversion
- Support Jumbo frame conversion
- Support auto-negotiation with link partners
- Provide one 100M and one 1000M SFP slots 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
- Ideal solution for multimode, short reach up to long reach single mode fiber, Bi-Di applications
- Provide high power PoE+ PSE function on copper port to support PoE-enable Ethernet device
- Web-based and SNMP configuration management support
- Port operating mode, flow control and status monitoring functions
- Tagged or untagged packet filtering
- 802.1Q VLAN tag stripping and tagging
- Provide IGMP snooping
- Support Q-in-Q application with double tag capability
- Support 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 | Two SFP connectors with pre-configured SFP fiber transceiver 100/1000Mbps 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 Remote copper port status - link, speed, duplex Loop back test status, Local fiber port status - link, speed |
| Jumbo Frame size | Support 9600 bytes max. |
| Loop Back Test | Push button to start loop back test with link partner over fiber link |
| PoE+PSE | IEEE 802.3at standard (Optional on copper port) PSE pin 4/5 -Positive DC, Pin 7/8 -Negative DC Power delivery 56V/30W max. at port output 2-Event classification support |
| DC Power Input | Operating voltage range for PoE applications: +45 ~ +57VDC Operating voltage range for Non-PoE applications: +6.5 ~ +60VDC |



Ordering Informations:

KGC-320-HP-xxx, KGC-320-xxx

| Model Ext. | 1000M Fiber | | | Distance |
|------------|-------------|------------------|--------------------|--------------|
| -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 |

| 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 |



FCC Part 15, Class A
CISPR 22 Class A

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Power Consumption 3.7W@7.5V, 5.4W@56V (No PoE use)

Power Supply External type AC-DC power adapter
Rated input voltage 100-240 VAC
Rated input frequency 50/60Hz
Output voltage 56VDC (+1%/-3%)
Output current 1.16A max.
IEC320 AC power cord (attachable)

Mounting Desktop, wall, Din-Rail

Environment Operating Temperature: -10°C~ 50°C
Storage Temperature: -40°C ~ 85°C
Relative Humidity: 10% ~ 90% non-condensing

Dimension 144 x 104.5 x 26 mm (WxDxH)

Approval FCC Class A, CE mark Class A, C-Tick, IEC60950-1 safety

Management:

Management Web-based browser interface, SNMP

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)

IGMP Snooping Configuration, status

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

Ordering Informations:

KGC-320-HP-xxx Media converter with PoE+ PSE function

KGC-320-xxx Media converter with no PoE function

Fiber Optical Specifications:

| Model Ext. | 1000M Fiber | Wavelength | Tx Power* | Rx Sens. | Rx Max. |
|------------|--------------|------------------------|--------------|----------|---------|
| -SX | LC MMF | 850nm | -9.5 ~ -4dBm | -18dBm | 0dBm |
| -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 |

| 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