

Fibrain's FGMS-CxxL-28B media converter is an ideal solution for users which wants to extend Gigabit/Fast Ethernet network range beyond 100 meters limit. This device works with singlemode fibers. CWDM technology used in optical module allows (in connection with CWDM multiplexer and demultiplexer) to connect up to 16 pairs of FGMS devices via just two strands of fiber. This approach can bring savings especially when devices are connected over dark fibers (leased lines). Auto-negotiation enabled copper interface can support 10/100/1000Mbps speeds and auto MDI/MDIX. FGMS-CxxL-28B can be installed in Fast Ethernet and Gigabit Ethernet networks. For packet switching between TX and FX interfaces store-and-forward architecture was used, support for VLAN tagged frames. Media converter is equipped with high quality optical transceiver which assures stable and error free transmission over 40km* long optical lines. This device is powered from external AC/DC power adaptor (220V AC/5V DC included, EU version). This media converter can also be installed in rack mounted chassis FR-16C-AC or FR-16C-DC which can accommodate up to 16 units (metal enclosure must be removed before installation in FR-16C-XX). Rack mounted chassis is 2U high and is equipped with redundant power supply.



Part number: FGMS-CxxL-28B

Key features:

- 10/100/1000Base-T to 1000Base-ZX signal conversion
- Transmission distance: up to 80km*
- Singlemode CWDM SFP Module
- Passive cooling
- High quality components
- MAC address auto-learning and auto-updating
- Store-and-forward architecture
- Supporting FDX flow control or HDX back pressure
- Supporting Auto-negotiation for RJ45 interface
- Supporting frames up to 9k bytes long
- LED status display:
 - Port activity,
 - Power
 - Transmission speed
 - Copper interface link
 - Optical interface link
- MTBF time exceeding 500 000 hours



Technical specification:

| | | | |
|-------------------------------|--|-------------------------------|--------------------------|
| Transmission speed: | 10/100/1000Mbps | | |
| Standards compliance: | IEEE802.3 | 10Base-T Ethernet, | |
| | IEEE802.3u | 100Base-TX Fast Ethernet, | |
| | IEEE802.3ab | 1000Base-T Gigabit Ethernet , | |
| | IEEE802.3z | 1000Base-ZX Gigabit Ethernet | |
| | IEEE802.3x | Flow control | |
| Wavelength: | 1271nm~1611nm, up to 16 CWDM channels are available to choose from when ordering | | |
| Certificates: | CE, RoHS | | |
| Estimated reach: | Optical port: | up to 80km* | |
| | Port RJ45: | CAT5: 100m | |
| Optical parameters: | Transmission power | Receiver sensitivity | Receiver Overload |
| | 0 dBm ~ 5 dBm | -28 dBm | -3 dBm |
| Ports: | Copper: | RJ45 | |
| | Optical: | LC Duplex | |
| Conversion method: | store-and-forward | | |
| Delays: | <10us | | |
| BER: | <1/1000000000 | | |
| LED Display: | PWR, FXL, TXL, 100M, 1000M, FDX | | |
| Power: | External power supply: 220V AC / 5V DC (1000mA) | | |
| Power consumption: | <5W | | |
| Operating environment: | Temperature: | 0 ~ 50 °C | |
| | Humidity: | 5%~90% noncondensing | |
| Storage environment: | Temperature: | -40 ~ 70 °C | |
| | Humidity: | 5%~90% noncondensing | |
| Case material: | Aluminium | | |
| Weight: | 0.15kg netto; 0.40kg brutto | | |
| Dimensions: | 25mm (height) x 70mm (width) x 93mm (depth) | | |

Specification is subject to change without end user notification. Submitted pictures are for reference only. Actual product look may differ from presented on pictures

Ordering information:

16 channels available to choose from while ordering. Part number is created as in below examples

FGMS-C**27**L-28B – CWDM 1271nm, 28dB

FGMS-C**49**L-28B – CWDM 1491nm, 28dB

FGMS-C**61**L-28B – CWDM 1611nm, 28dB

* - depends on attenuation of fiber and connectors

Rack chassis sold separately (ref number. FR-16C-AC / FR-16C-DC)