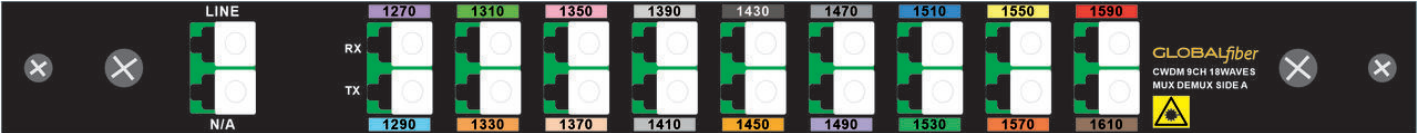


# GF-CM18-LGXLA-2761-A

9-channel single-fiber CWDM BiDi MUX/DEMUX, side A, LC/APC

## 1. Product overview

Passive 9-channel CWDM multiplexer/demultiplexer for 18 wavelengths across 1270-1610 nm. Side A operates with the complementary opposite-side unit over one optical fiber. A plug-in LGX enclosure supports installation in a 1U rack.



## 2. Key features

- 9 bidirectional services using 18 CWDM wavelengths; 20 nm grid.
- Passive TFF optical filtering; no power supply required.
- Matched side A / side B operation over a single fiber.
- LC/APC product variant; plug-in LGX housing.

## 3. Applications

Bidirectional point-to-point links: 1G/10G Ethernet, SDH/SONET and 8/4/2/1G services as stated in the PDF. Broadcast/TV, data centers, finance, government and cloud networks.

## 4. Technical data

| Parameter                          | Specification                           |
|------------------------------------|-----------------------------------------|
| Transmission topology              | Single-fiber BiDi; paired A and B units |
| Number of channels                 | 9 services / 18 wavelengths             |
| Technology                         | TFF (thin-film filter)                  |
| Product connector                  | LC/APC                                  |
| LGX dimensions in PDF table        | 215 × 150 × 20 mm (H × W × D)           |
| LGX width in PDF drawing           | 214.5 mm; depth 150 mm; height 20 mm    |
| LGX net weight                     | 0.5 kg                                  |
| Rack dimensions in PDF table       | 440 × 160 × 44 mm (H × W × D)           |
| Rack / net weight / mounting width | 4-slot 1U / 2.5 kg / 482 mm             |

## 5. Recommended operating conditions

| Parameter             | Specification |
|-----------------------|---------------|
| Operating temperature | -40 to +85°C  |
| Storage temperature   | -40 to +85°C  |

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6. Optical characteristics

| Optical parameter          | Specification | Optical parameter                  | Specification |
|----------------------------|---------------|------------------------------------|---------------|
| Operating wavelength range | 1270-1610 nm  | Return loss                        | ≥45 dB        |
| Channel spacing            | 20 nm         | Directivity                        | ≥45 dB        |
| Channel passband           | ±6.5 nm       | Polarization mode dispersion (PMD) | ≤0.1 ps       |
| Insertion loss             | ≤3.0 dB       | Polarization dependent loss (PDL)  | ≤0.3 dB       |
| Link loss, A + B           | ≤3.8 dB       | Adjacent channel isolation         | ≥30 dB        |
| Center wavelength accuracy | ±0.05 nm      | Non-adjacent channel isolation     | ≥45 dB        |

Wavelength assignment from the PDF (nm)

| Service | A: TX | A: RX | B: TX | B: RX |
|---------|-------|-------|-------|-------|
| 1       | 1290  | 1270  | 1270  | 1290  |
| 2       | 1330  | 1310  | 1310  | 1330  |
| 3       | 1370  | 1350  | 1350  | 1370  |
| 4       | 1410  | 1390  | 1390  | 1410  |
| 5       | 1450  | 1430  | 1430  | 1450  |
| 6       | 1490  | 1470  | 1470  | 1490  |
| 7       | 1530  | 1510  | 1510  | 1530  |
| 8       | 1570  | 1550  | 1550  | 1570  |
| 9       | 1610  | 1590  | 1590  | 1610  |

7. Digital diagnostics and management

No built-in DDM, management protocol or electrical telemetry is specified for this passive device.

8. Safety and regulatory

No specific regulatory certification is stated in the source PDF. The device is passive and has no electrical supply.

9. Ordering information

| Product number       | Description                                                                             |
|----------------------|-----------------------------------------------------------------------------------------|
| GF-CM18-LGXLA-2761-A | 9-channel single-fiber CWDM BiDi MUX/DEMUX, side A, LC/APC; LC/APC; LGX4 plug-in module |
| GF-CM18-LGXLA-2761-B | Matching opposite-side LC/APC product                                                   |

