

# GF-4G-LGX02A-GX5-2

2 x 5CH CEx WDM

## 1. Product overview

2 x 5CH CEx WDM for coexistence of GPON / XGS-PON / 25/50G-PON / RF Video / OTDR over shared optical fiber. Wavelength-selective optical paths combine or separate the supported services, allowing access-network upgrades using existing fiber infrastructure.



Product image from the corresponding GLOBALfiber product page.



## 2. Key features

- Supports GPON / XGS-PON / 25/50G-PON / RF Video / OTDR
- Passive wavelength coexistence; no electrical power required
- Plug-in LGX housing for rack or cabinet installation

## 3. Applications

FTTH / FTTB access, GPON-to-XGS-PON migration, enterprise and campus access, and service-provider fiber infrastructure.

## 4. Technical data

| Parameter                          | Specification                 |
|------------------------------------|-------------------------------|
| Configuration                      | 2 x 5CH CEx WDM               |
| Optical interfaces                 | SC/APC                        |
| Dimensions (W x D x H)             | LGX: 215 x 150 x 20 mm        |
| Net weight                         | LGX: 0.5 kg                   |
| Associated rack (separate housing) | 1U; 440 x 160 x 44 mm; 2.5 kg |

## 5. Recommended operating conditions

| Parameter                   | Specification |
|-----------------------------|---------------|
| Operating temperature       | -40 to +85 °C |
| Storage temperature         | -40 to +85 °C |
| Operating relative humidity | 5 to 90% RH   |

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### 6. Optical characteristics

Values below are from the linked original PDF / identified family PDF. Bandpass and insertion loss apply to the corresponding COM-service path.

| Service / path | Bandpass (nm)         | Insertion loss (dB) | Isolation (dB) |
|----------------|-----------------------|---------------------|----------------|
| GPON           | 1290-1330 / 1480-1550 | <0.9                | >30            |
| XGS-PON        | 1260-1280 / 1575-1580 | <1.1                | >30            |
| 25/50G-PON     | 1284-1288 / 1340-1344 | <1.3                | >30            |
| RF Video       | 1540-1560             | <1.5                | >30            |
| OTDR           | 1600-1650             | <1.7                | >30            |

| Parameter                          | Specification |
|------------------------------------|---------------|
| Uniformity                         | <0.8 dB       |
| Return loss                        | >55 dB        |
| Directivity                        | >55 dB        |
| Polarization dependent loss (PDL)  | <0.3 dB       |
| Polarization mode dispersion (PMD) | <0.2 ps       |
| Optical power handling             | <300 mW       |

Insertion loss includes WDL, TDL and PDL, with two sets of mated connectors at both ends, as stated in the source PDF.

### 7. Digital diagnostics and management

No digital management or diagnostics interface is specified. OTDR optical access supports testing by an external instrument; the CEx module itself does not perform the measurement.

### 8. Safety and regulatory

No product-specific safety classification, regulatory certification or compliance test is stated in the reviewed sources.

### 9. Ordering information

| GLOBALfiber part number | Product description                                                     |
|-------------------------|-------------------------------------------------------------------------|
| GF-4G-LGX02A-GX5-2      | GF 2x5CH CEx WDM GPON XGS-PON 50G-PON,RF Video OTDR SC/APC Plug-in LGX4 |