

**PASSIVES DATA SHEET**


# 8 Channel Single Fiber DWDM Demux ITU ch. 21-28+GPON+XGSPON+OTDR

Champion ONE's DWDM passive networking products for inside plant applications provide a cost-effective, high-reliability solution to fiber capacity challenges.

## Technical Specifications

**WAVELENGTH INFORMATION**

DWDM center wavelengths: ITU ch. 21-28 (100GHz spacing)  
 GPON center wavelengths: 1290-1330nm / 1480-1500nm  
 XGS-PON center wavelengths: 1260-1280nm / 1575-1580nm  
 OTDR center wavelength: 1650nm

**FORM FACTOR AND CONNECTOR TYPES**

Single-wide LGX  
 LC/APC connectors

**DIMENSIONS (LXWXH)**

Body: 100 x 100 x 28.5 mm  
 Faceplate: 130 x 28.5mm

**TEMPERATURE RANGE**

-10° C to 75° C (operating)  
 -40° C to 85° C (storage)

**WARRANTY**

All feature a limited 5-year warranty

**COMPLIANCES**

RoHS compliant  
 Telcordia GR-1209, GR-1221

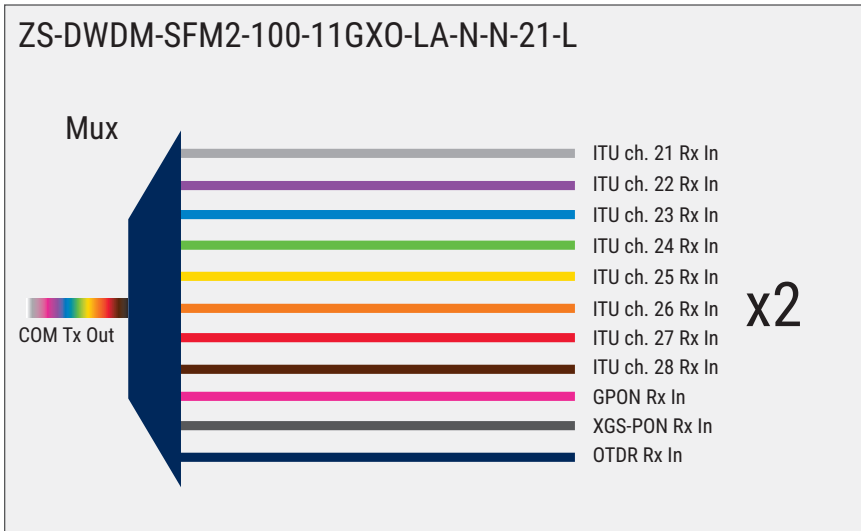
| Parameter   | Value |
|---|-------|
| DWDM Channel Insertion Loss (dB)                          | ≤ 4.7 |
| GPON Channel Insertion Loss (dB)                          | ≤ 1.4 |
| XGS-PON Channel Insertion Loss (dB)                       | ≤ 1.8 |
| OTDR Channel Insertion Loss (dB)                          | ≤ 1.0 |
| Passband Ripple (dB)                                      | ≤ 0.5 |
| Adjacent Channel Isolation between DWDM Channels (dB)     | ≥ 30  |
| Non-Adjacent Channel Isolation Between CWDM Channels (dB) | ≥ 40  |
| GPON Channel Isolation (dB)                               | ≥ 30  |

| Parameter                         | Value                      |
|-----------------------------------|----------------------------|
| XGS-PON Channel Isolation (dB)    | ≥ 30                       |
| OTDR Channel Isolation (dB)       | ≥ 30                       |
| Polarization Dependent Loss (dB)  | ≤ 0.2                      |
| Directivity (dB)                  | ≥ 50                       |
| Return Loss (dB)                  | ≥ 45                       |
| Polarization Mode Dispersion (ps) | ≤ 0.2                      |
| Fiber Type                        | SMF-28<br>9 / 125 / 250 μm |
| Filter Type                       | TFF                        |
| Max Power Handling (mW)           | 300                        |

## Ordering Information

| C1 Part Number                     | Description   |
|------------------------------------|---|
| ZS-DWDM-SFM2-100-11GXO-LA-N-N-21-L | Dual 11CH DWDM SFM, GPON, XGS-PON, OTDR, DWDM CH 21-28, LC/APC, LGX |

## Network Diagram



## Accessories

For convenient deployment in a standard 19" rack, Champion ONE also offers a 1RU Faceplate with 3 LGX slots (ordered separately from mux).



| Parameter      | Value                                |
|----------------|--------------------------------------|
| C1 Part Number | LGX1R-FACEPLATE                      |
| Dimensions     | Fits 19" rack x 1RU (482.6mm x 44mm) |