

**PASSIVES DATA SHEET**


# 6x3 Channel Single Fiber Mux (GPON, XGS-PON, EXP)

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

## Technical Specifications

**WAVELENGTH INFORMATION**

GPON center wavelengths: 1290-1330nm / 1480-1500nm  
XGS-PON center wavelengths: 1260-1280nm / 1575-1580nm

**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

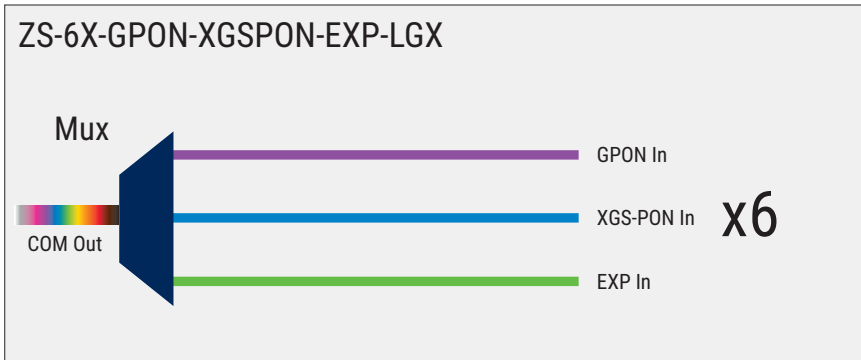
Parameter	Value
GPON Channel Insertion Loss (dB)	≤ 1.2
XGS-PON Channel Insertion Loss (dB)	≤ 1.5
EXP Channel Insertion Loss (dB)	≤ 1.0
Passband Ripple (dB)	≤ 0.5
Adjacent Channel Isolation (dB)	≥ 30
Non-Adjacent Channel Isolation (dB)	≥ 40

Parameter	Value
Polarization Dependent Loss (dB)	≤ 0.2
Directivity (dB)	≥ 50
Return Loss (dB)	≥ 45
Polarization Mode Dispersion (ps)	≤ 0.2
Fiber Type	SMF-28 9 / 125 / 250 μm
Max Power Handling (mW)	300

## Ordering Information

C1 Part Number	Description
ZS-6X-GPON-XGSPON-EXP-LGX	6x units, GPON, XGS-PON, Express LC/APC, LGX

## Network Diagram



## Mounting Options

For convenient deployment in a standard 19" rack, Champion ONE also offers the following range of chassis and faceplate options (ordered separately from mux).



Parameter	Value
C1 Part Number	ZS-LGX3R-14S-CHASSIS-1923
Description	LGX 3RU Chassis for 14 LGX Modules and fiber mgmt. - 19 or 23" rack

Parameter	Value
C1 Part Number	ZS-LGX1R-3S-CHASSIS-1923
Description	LGX 1RU Chassis for 3 LGX Modules and fiber mgmt. - 19 or 23" rack



Parameter	Value
C1 Part Number	LGX1R-FACEPLATE
Description	3-Slot LGX Faceplate for 19" rack

## Physical Diagrams and Extended Loss Specifications

