

SFPDD-XGSOLT-D-I

SFPDD XGSPON/GPON OLT 1577T/1270R 60 D | 9.95T/9.95R-2.4T/1.2R SC I-Temp

1. Product overview

XGS-PON / GPON Combo OLT Transceiver - SFP-DD (Class D, I-Temp)

The GLOBALfiber XGS-PON / GPON Combo OLT Transceiver (Class D) is an ultra-long-reach SFP-DD optical module designed for up to 60 km PON deployments. It enables simultaneous XGS-PON and GPON operation on a single fiber, allowing operators to centralize OLT locations and extend coverage without modifying the passive network.

With very high transmit power, exceptional receiver sensitivity, and industrial temperature support, this Class D module is purpose-built for extreme distances, sparse geographies, and centralized access architectures where maximum optical margin is critical.

2. Key features

- Dual-mode XGS-PON + GPON Combo OLT transceiver
- Class D optical performance for ultra-long-reach PON
- SFP-DD form factor for high-density OLT platforms
- Concurrent GPON and XGS-PON services on the same fiber
- Very high output power and deep receiver sensitivity
- Industrial temperature operation (I-Temp)
- SC optical interface
- Fully passive coexistence with existing PON infrastructure

3. Applications

- Ultra-long-reach FTTH / FTTB networks (up to 60 km)
- Rural, remote, and geographically challenging deployments
- Highly centralized OLT architectures
- High split-ratio PON designs requiring extreme optical margins
- Teknisk info

4. Technical data

Technical specifications	Continued (read down each column)
Transceiver Type: XGS Combo PON OLT Transceiver	Maximum Reach: 60 km
Form Factor: SFP-DD	Optical Power Budget: ~37 dB
GLOBALfiber Part Number: SFPDD-XGSOLT-D-I	Optical Interface: SC/UPC
Description: XGS-PON / GPON MPM Class D, Industrial Temperature	Operating Temperature: Industrial (I-Temp)

5. Recommended operating conditions

With very high transmit power, exceptional receiver sensitivity, and industrial temperature support, this Class D module is purpose-built for extreme distances, sparse geographies, and centralized access architectures where maximum optical margin is critical.

Industrial temperature operation (I-Temp)

Description: XGS-PON / GPON MPM Class D, Industrial Temperature

Operating Temperature: Industrial (I-Temp)

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6. Optical characteristics

Optical specifications	Continued (read down each column)
Wavelength (TX / RX): 1577 nm TX / 1270 nm RX	OLT Optical Class: Class D
OLT Optical Class: Class D	Transmit Output Power: +6 to +10 dBm
Transmit Output Power: +8 to +11 dBm	Receiver Overload: -15 dBm
Receiver Overload: -11 / -13 dBm	Receiver Sensitivity: -35 dBm
Receiver Sensitivity: -32 / -33.5 dBm	

7. Digital diagnostics and management

Not specified in the reviewed source.

8. Safety and regulatory

ITU-T G.984 (GPON)
ITU-T G.9807.1 (XGS-PON)
Designed for SFP-DD based PON OLT platforms

9. Ordering information

GLOBALfiber part number	Product description
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