

SFPDD-XGSOLT-C-I

SFPDD XGSPON/GPON OLT 1577T/1270R 20 C+ | 9.95T/9.95R-2.4T/1.2R SC I-Temp

1. Product overview

XGS-PON / GPON Combo OLT Transceiver - SFP-DD (C+, I-Temp)

The GLOBALfiber XGS-PON / GPON Combo OLT Transceiver (C+ class) is a carrier-grade SFP-DD optical module designed for 20 km PON deployments requiring higher optical margins than standard B+ solutions. It supports simultaneous XGS-PON and GPON operation on the same fiber, enabling a controlled and non-disruptive migration from GPON to XGS-PON.

With increased transmit power, improved receiver sensitivity, and industrial temperature operation, this module is well suited for access networks with higher split ratios, longer distribution fibers, or stricter margin requirements.

2. Key features

Dual-mode XGS-PON + GPON Combo OLT transceiver
C+ optical class optimized for 20 km reach
SFP-DD form factor for modern, high-density OLT platforms
Concurrent GPON and XGS-PON services on a single PON
Industrial temperature operation (I-Temp)
SC optical interface
Seamless coexistence with legacy GPON ONTs and XGS-PON ONTs

3. Applications

FTTH and FTTB access networks with higher split ratios
GPON to XGS-PON migration projects
Central offices and access nodes requiring extra optical margin
Teknisk info

4. Technical data

Technical specifications	Continued (read down each column)
Transceiver Type: XGS Combo PON OLT Transceiver	Maximum Reach: 20 km
Form Factor: SFP-DD	Optical Power Budget: 35 dB
GLOBALfiber Part Number: SFPDD-XGSOLT-C-I	Optical Interface: SC/UPC
Description: XGS-PON / GPON MPM C+, Industrial Temperature	Operating Temperature: Industrial (I-Temp)

5. Recommended operating conditions

With increased transmit power, improved receiver sensitivity, and industrial temperature operation, this module is well suited for access networks with higher split ratios, longer distribution fibers, or stricter margin requirements.

Industrial temperature operation (I-Temp)

Description: XGS-PON / GPON MPM C+, 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: C+
OLT Optical Class: C+	Transmit Output Power: +3 to +7 dBm
Transmit Output Power: +5 to +8 dBm	Receiver Overload: -12 dBm
Receiver Overload: -8 / -10 dBm	Receiver Sensitivity: -32 dBm
Receiver Sensitivity: -29 / -30.5 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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