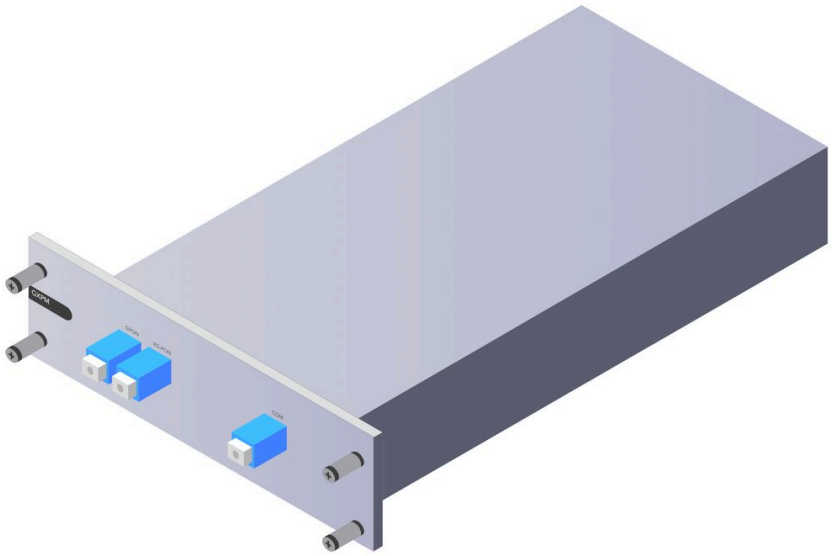
nex·gen

OTN SYSTEMS WDM PLATFORMS

GPON/XG-PON Coexistence Multiplexer

The GPON/XG-PON Coexistence Multiplexer combines GPON and XG-PON service wavelengths onto a single fibre core, letting both technologies coexist in the same ODN network coverage during a smooth XG-PON upgrade. It gives high-speed access to selected high-bandwidth customers without disturbing the existing GPON service on the same passive optical network.



HIGHLIGHTS

GPON + XG-PON on one fibre

Multiplexes both PON generations onto a single fibre core for smooth network evolution.

Low insertion loss

<0.8dB (GPON) / <1.2dB (XG-PON) channel insertion loss.

High channel isolation

>30dB isolation on both GPON and XG-PON bands.

High stability & reliability

Low insertion-loss and wavelength thermal drift across a wide temperature range.

FORMAT

ABS MODULE | LGX

SPECIFICATIONS

Optical	
GPON Operating Wavelength Range	1290–1330nm & 1480–1500nm
XG-PON Operating Wavelength Range	1260–1280nm & 1575–1580nm
GPON Channel Isolation	>30dB
XG-PON Channel Isolation	>30dB
GPON Channel Insertion Loss	<0.8dB
XG-PON Channel Insertion Loss	<1.2dB
Insertion Loss Thermal Stability	≤0.007dB/°C
Wavelength Thermal Stability	≤0.002nm/°C
Polarization-Related Loss	≤0.2dB
Polarization Mode Dispersion	≤0.1ps
Directionality	≥50dB
Return Loss	≥50dB
Maximum Input Power	≤500mW
Optical Interface	SC/UPC
Environmental & Mechanical	
Operating Temperature	−40°C–+85°C
Operating Humidity	≤85% RH, non-condensing
Storage Temperature	−40°C–+85°C
Package Type	ABS box · LGX box

ORDERING INFORMATION

NAME	GPON/XG-PON Coexistence Multiplexer
DESCRIPTION	GPON/XG-PON Coexistence Multiplexer, passive multiplexer combining GPON (1290-1330nm and 1480-1500nm) and XG-PON (1260-1280nm and 1575-1580nm) service wavelengths onto a single fibre core, for smooth XG-PON network upgrade while keeping GPON coexistence. Low insertion loss, high channel isolation, SC/UPC interface.
PART NUMBER	WDM-GXPM- **{Format}**

{Format}	ABS (ABS box) · LGX (LGX box), required