

Wavelength Mux (WM1)

Next Generation PON | NG-PON2

Description

The Wavelength Mux (WM1) is a passive device used to support Next Generation PON (NG-PON2) with up to 40 Gigabit capacity via 4 wavelengths (4x10G per port) and advancing to 80 Gigabit capacity via 8 wavelengths (8x10G per port) in the future. The Wavelength Mux combines and separates the 4 downstream (L-Band) and upstream (C-Band) wavelengths over a single fiber.

Premium optical components and high-quality connectivity ensure superior performance, the lowest loss, and robust network reliability.

WMs are available in several housing options: LGX[®] module, ruggedized cassette, rack-mount, and customized housings.

Features

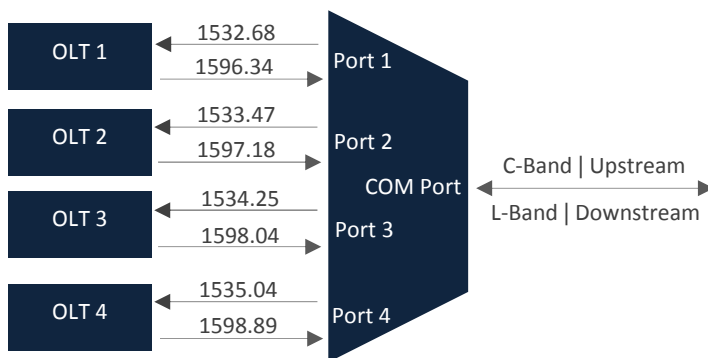
-) Low insertion loss
-) High isolation
-) Excellent environmental & mechanical stability
-) Premium grade components & connectivity
-) Available with Monitoring ports
-) GR-63-CORE, ITU-T G989, RoHS compliant



WM1 SC LGX[®] Module

WM1 SC LGX Module

Wavelength Mux 4 Channel diagram



C-Band wavelengths: 1532.68 | 1533.47 | 1534.25 | 1535.04
 L-Band wavelengths: 1596.34 | 1597.18 | 1598.04 | 1598.89

Common
1532.68 / 1596.34
1533.47 / 1597.18
1534.25 / 1598.04
1535.04 / 1598.89

WM1 wavelength port designation

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WM1 SC LGX Module

Optical specifications

Parameter	Value
Central wavelength (nm)	1532.68 / 1596.34 Port 1 1533.47 / 1597.18 Port 2 1534.25 / 1598.04 Port 3 1535.04 / 1598.89 Port 4 Common port Port 5
Passband Channel ports 1 – 4 (nm)	± 0.12
Insertion loss (includes connectors) (dB)	2.0 C-Band Upstream 2.0 L-Band Downstream
Passband ripple (dB)	0.40
Isolation (dB)	32 Adjacent channel 36 Non-Adjacent Channel 11 O-Band, GPON/XG-PON, RF, L-Band
Directivity (dB)	55
Return loss all ports	50
Polarization dependent loss (dB)	0.30
Polarization mode dispersion (ps)	0.20
Maximum optical power (mW)	300
Operating temperature (°C)	-5 to +75
Storage temperature (°C)	-40 to +85
Reliability	GR-63-CORE, ITU-T G989

Housing dimensions

LGX [®] single slot wide module (mm)	129 x 125 x 28
Connector/Adapter type for all ports	SC/UPC

Premium-Grade connectors and adapters

Ordering information

Part number: MFT-M/NGP2-WM-SCU/SCU

Description: Wavelength Mux WM1 SC LGX Module

Available in all the following adapters (connectors): LC/APC, LC/UPC, SC/APC, SC/UPC

Note: Other housing options available in ruggedized cassette, rack-mount, and custom