

WaveReady® 13 Channel DWDM Multiplexer/Demultiplexer (Mux/Demux)

MDX-13MX2001A and MDX-13DX2001A



Key Features

- Multiplexes 13 DWDM, 200 GHz spaced channels onto one fiber
- Interfaces with widely available ITU transponder cards
- Optical monitoring of all active channels
- High isolation, low insertion loss
- Fits standard LGX configurations
- Small, compact packaging
- Passive optics, no electrical power required

Applications

- Increase network capacity using DWDM
- External optical monitoring
- Fiber conservation using passive DWDM technology

Compliance

- NEBS level 3 (GR-63-CORE)

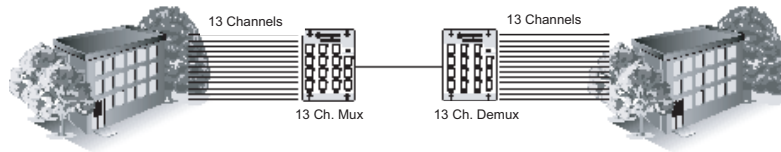
The WaveReady 13 Channel DWDM Multiplexer/Demultiplexer modules can be used instead of expensive DWDM systems to conserve fiber and solve fiber exhaust problems.

13 Channel DWDM Mux/Demux modules have low-loss narrowband filters that allow 13 DWDM, 200 GHz spaced channels to be multiplexed onto a single fiber. Optical monitoring of the common fiber is possible through an SC port allowing for non-service affecting maintenance access for optical spectrum analysis (OSA) or power measurement..

These reliable, high-performance devices interface with the DWDM transponder cards of widely available transmission equipment. Standard LGX™ casing guarantees easy deployment in industry standard LGX patchpanel solutions.

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13 Channels to a Site Connected Through One DWDM Link



Channel Plan

Port	ITU Channel/Wavelength	Port	ITU Channel/Wavelength	Port	ITU Channel/Wavelength
1	59/1530.33 nm	6	45/1541.35 nm	10	31/1552.52 nm
2	55/1533.47 nm	7	37/1547.72 nm	11	27/1555.75 nm
3	53/1535.04 nm	8	35/1549.32 nm	12	25/1557.36 nm
4	49/1538.19 nm	9	33/1550.92 nm	13	23/1558.98 nm
5	47/1539.77 nm				

Specifications

Parameter	Multiplex and Demultiplex, All Channels
Insertion Loss	Maximum 3.8 dB
End-to-end insertion loss ¹	Maximum 5.5 dB
Passband at -0.5 dB, center wavelength	Minimum ±0.25 nm
Flatness	Maximum 0.5 dB
Isolation for adjacent channel	Minimum 30 dB
Isolation for non-adjacent channel	Minimum 50 dB
Polarization dependent loss	Maximum 0.2 dB
Optical return loss	Minimum 45 dB
Dimension (W x H x D)	84.1 x 129.5 x 160.5 mm (3.3 x 5 x 6.3 in), 3U high LGX box
Weight	0.5 kg
Optical connector	SC/PC bulkhead, all ports
Operating temperature	-5 to 65 °C
Storage temperature	-40 to 85 °C
Humidity	Maximum 85% RH, non-condensing

1. When the 13 Channel DWDM mux and the 13 Channel DWDM demux are used as a pair.

Ordering Information

For more information on this or other products and their availability, please contact your local JDSU account manager or JDSU directly at 1-800-498-JDSU (5378) in North America and +800-5378-JDSU worldwide or via e-mail at customer.service@jdsu.com.

Product Code	CLEI Code	Model
MDX-13MX2001A	WMMC26EBRB	13 Channel DWDM Mux PWS 01
MDX-13DX2001A	WMMC36EBRB	13 Channel DWDM Demux PWS 01

Associated Part	CLEI Code	Model
WSH-2003T24SA-023	WMR4ZG0CAA	ITU WaveShifter 200, 3R Regenerator 45 to 2.488 Mbps, ITU ch 23
WSH-2003T24SA-025	WMR6S0JDAA	ITU WaveShifter 200, 3R Regenerator 45 to 2.488 Mbps, ITU ch 25
WSH-2003T24SA-027	WMR6S0KDAA	ITU WaveShifter 200, 3R Regenerator 45 to 2.488 Mbps, ITU ch 27
WSH-2003T24SA-031	WMR3110CAA	ITU WaveShifter 200, 3R Regenerator 45 to 2.488 Mbps, ITU ch 31
WSH-2003T24SA-033	WMR3130CAA	ITU WaveShifter 200, 3R Regenerator 45 to 2.488 Mbps, ITU ch 33
WSH-2003T24SA-035	WMR5W0UDAA	ITU WaveShifter 200, 3R Regenerator 45 to 2.488 Mbps, ITU ch 35
WSH-2003T24SA-037	WMR4ZE0CAA	ITU WaveShifter 200, 3R Regenerator 45 to 2.488 Mbps, ITU ch 37
WSH-2003T24SA-045	WMR310NCAA	ITU WaveShifter 200, 3R Regenerator 45 to 2.488 Mbps, ITU ch 45
WSH-2003T24SA-047	WMR6S10DAA	ITU WaveShifter 200, 3R Regenerator 45 to 2.488 Mbps, ITU ch 47
WSH-2003T24SA-049	WMR6S20DAA	ITU WaveShifter 200, 3R Regenerator 45 to 2.488 Mbps, ITU ch 49
WSH-2003T24SA-053	WMR6S40DAA	ITU WaveShifter 200, 3R Regenerator 45 to 2.488 Mbps, ITU ch 53
WSH-2003T24SA-055	WMR6S80DAA	ITU WaveShifter 200, 3R Regenerator 45 to 2.488 Mbps, ITU ch 55
WSH-2003T24SA-059	WMR6SF0DAA	ITU WaveShifter 200, 3R Regenerator 45 to 2.488 Mbps, ITU ch 59