

# Dual 1310/1550 Multiplexer/Demultiplexer

## MDX-02MDW001A



### Key Features

- High isolation supports bi-directional and uni-directional modes of operation
- Extended operating temperature range suitable for remote office environments
- Forward compatibility with DWDM modules for hybrid capacity upgrades
- Low end-to-end insertion loss
- LGX™ compatible modules can be installed in minutes

### Applications

- Full duplex bi-directional communications over a single fiber
- Fiber exhaust / fiber sparing with legacy 1310 nm optical equipment

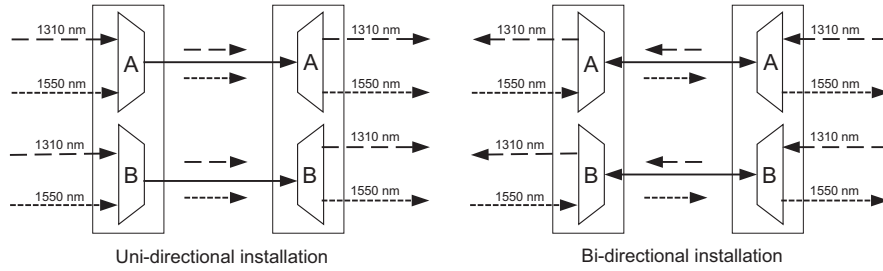
The WaveReady™ 3000 series Dual 1310/1550 multiplexer/demultiplexer bridges the gap between legacy systems and new revenue-generating services by allowing 1550 nm CWDM or DWDM optical channels and legacy 1310 nm traffic to be combined without disruption. With its ultra-wide bandwidth and very high isolation, the Dual 1310/1550 Mux/Demux is well suited for bi-directional applications.

The Dual 1310/1550 Mux/Demux can be installed within minutes into any LGX™ compatible shelf without tools.

The WaveReady™ 3000 Series Dual 1310/1550 Mux and Demux are NEBS qualified and designed to operate reliably under remote office environmental conditions. With millions of field operating hours, JDSU's industry-leading optical multiplexing technology offers unparalleled reliability.

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Functional Diagram



Channel Plan

Channel	Wavelength	Channel	Wavelength
1	A- Common Input/Output	4	B- Common Input/Output
2	A- 1310 nm	5	B- 1310 nm
3	A- 1550 nm	6	B- 1550 nm

**Specifications**

Parameter	Multiplexer and Demultiplexer, All Channels	
1310 nm insertion loss (to Common port)	Maximum	1.3 dB
1550 nm insertion loss (to Common port)	Maximum	1.3 dB
1310 nm passband	Minimum	1270 to 1350 nm
1550 nm passband	Minimum	1480 to 1600 nm
Channel isolation	Minimum	50 dB
Polarization dependent loss	Maximum	0.1 dB
Optical return loss	Minimum	45 dB
Dimension (W x H x D)	1.12 x 5.10 x 6.35 inches	
Weight	0.76 lbs (0.36 kg)	
Optical connectors	SC/PC bulkhead, all ports	
Operating temperature range	-40 to 65 °C	
Storage temperature range	-40 to 85 °C	
Operating humidity range	Maximum	85% RH, non-condensing

**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](mailto:customer.service@jdsu.com).

**Sample: MDX-02MDW001A**

Product Code	Model
MDX-02MDW001A	Dual 1310/1550 Multiplexer/Demultiplexer

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