

## 8 Channel CWDM Multiplexer/Demultiplexer (Mux/Demux)

MDX-08MXC001A

MDX-08DXC001A



### Key Features

- Multiplexes eight CWDM (20 nm spaced) channels to a single fiber
- 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™ and WaveReady™ 3500 Shelf compatible; can be installed in minutes

### Applications

- Wavelength services over CWDM
- Fiber conservation in Metro and Access spaces
- CWDM/DWDM hybrid solutions

### Compliance

- Channel plan compliant with ITU-T G694.2
- UL 60950 Third Edition
- Telcordia GR-63
- NEBS Level 3

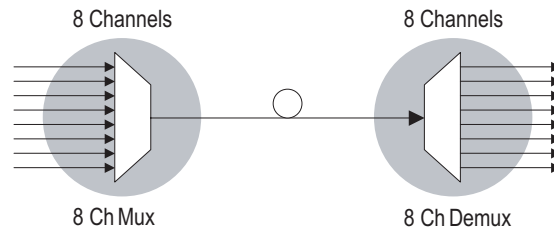
The WaveReady 3000 series 8 Channel Coarse Wavelength Division Multiplexing (CWDM) Mux and Demux modules are reliable, cost effective solutions to fiber exhaust and multi-service applications. They multiply the capacity of existing single mode fiber, by combining up to eight ITU-T G.694.2 compatible (20 nm spaced) channels into a single optical fiber. Standard LGX™ casing design allows these units to be installed without tools into any LGX compatible shelf, in minutes.

The CWDM 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.

Forward compatibility with WaveReady CWDM/DWDM hybrid solutions provides a path for future capacity growth of your CWDM equipment.

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### Functional Diagrams



### Channel Plan

Channel	Wavelength	Channel	Wavelength	Channel	Wavelength
1	Common Input/Output	4	1510 nm	7	1570 nm
2	1470 nm	5	1530 nm	8	1590 nm
3	1490 nm	6	1550 nm	9	1610 nm

### Specifications

Parameter	Multiplexer and Demultiplexer, All Channels	
End-to-end insertion loss	Maximum	5.8 dB
Over extended operating temperature range	Maximum	7.0 dB
Passband at -0.3 dB, center wavelength	Minimum	±7.5 nm
Flatness	Maximum	0.3 dB
Adjacent channel isolation	Minimum	30 dB
Non-adjacent channel isolation	Minimum	50 dB
Polarization dependent loss	Maximum	0.2 dB
Optical return loss	Minimum	45 dB
Dimension (W x H x D)	2.27 x 5.10 x 6.35 inches	
Weight	0.5 kg	
Optical connector	SC/PC bulkhead, all ports	
Operating temperature range	-5 to 70 °C	
Extended operating temperature range	-40 to 85 °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-08MXC001A**

Product Code	Model
MDX-08MXC001A	8 Channel CWDM Mux PSW 01
MDX-08DXC001A	8 Channel CWDM Demux PSW 01

**Associated Part**

Product Code	Description
10129126	DenseMount Shelf

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