

## 100GHz DWDM MUX DEMUX

100GHz DWDM MUX DEMUX, 1 U Rack, Single Fiber,  
4 Slots, LGX Box



### Product Features

- ❖ Low Insertion Loss
- ❖ High Isolation
- ❖ Low PDL
- ❖ Compact Design
- ❖ Good channel-to-channel uniformity
- ❖ Wide Operating Wavelength
- ❖ Wide Operating Temperature: -20 to 75°C

## Applications

- ❖ DWDM System
- ❖ PON Networks
- ❖ CATV Links
- ❖ Fiber optical amplifier
- ❖ Wavelength routing

## Description

DWDM multi-channel multiplexer /demultiplexer (Mux /DeMux) modules are available on ITU channel spacing of 100GHz. They demonstrate low loss, temperature insensitivity and reliable performance in any system application.

Fixed Mux/DeMux modules offer low-cost wavelength management solutions that are suitable for long haul, metro, and access application.

## Specification

Item	Unit	Parameters	
Channel Spacing	GHz	100GHz	
Wavelength Range		C- band ITU channels	
Channel Centers	nm	ITU	
Channels	ch	4CH(8wavelengths)	8(16wavelengths)
Passbandwidth	nm	$\geq \pm 0.13$	
Passband Ripple	dB	$\leq 0.5$	
Channel Insertion Loss	dB	$\leq 2.4$	$\leq 4.8$
Isolation (adjacent channel)	dB	$\geq 30$	
Isolation (non-adjacent channel)	dB	$\geq 40$	
Polarization Dependent Loss	dB	$\leq 0.2$	
Polarization Mode Dispersion	ps	$\leq 0.2$	
Directivity	dB	$\geq 50$	
Return Loss	dB	$\geq 45$	
Optical Power Handling	mW	$\leq 500$	
Operating Temperature Range	0C	-20 to 75	
Storage Temperature Range	0C	-40 to +85	
Fiber Type	NA	SMF-28e+	
Connector		LC/SC or other	

## Ordering Information

Part Number	Product Description
FM-1U19-4	FM 4-Slot 1U 19" Rack Chassis Unloaded, Holds up to 4 Units LGX BOX
FM-DWMU-BD4-C2128A	DWDM MUX, 4CH 8 wavelengths (TX:C21/C22/C23/C24, RX:C25/C26/C27/C28 ) with Express port, LC/UPC, single fiber, LGX BOX
FM-DWMU-BD4-C2128B	DWDM MUX, 4CH 8 wavelengths (TX: C25/C26/C27/C28, RX: C21/C22/C23/C24 ) with Express port, LC/UPC, single fiber, LGX BOX
FM-DWMU-BD4-CXXXXA	DWDM MUX, 4CH 8 wavelengths (TX: XX-XX customer specified, RX: XX-XX customer specified ) with Express port, LC/UPC, single fiber, LGX BOX
FM-DWMU-BD4-CXXXXB	DWDM MUX 4CH 8 wavelengths (TX: XX-XX customer specified, RX: XX-XX customer specified ) with Express port, LC/UPC, single fiber, LGX BOX
FM-DWMU-BD8-C4358A	DWDM MUX 8CH 16Wavelengths (TX: C43/C45/C47/C49/C51/C53/C55/C57 RX: C44/C46/C48/C50/C52/C54/C56/C58) with MON Port LC/UPC Single Fiber LGX BOX
FM-DWMU-BD8-C4358B	DWDM MUX 8CH 16Wavelengths (TX: C44/C46/C48/C50/C52/C54/C56/C58 RX: C43/C45/C47/C49/C51/C53/C55/C57) with MON Port LC/UPC Single Fiber LGX BOX
FM-DWMU-BD8-CXXXXA	DWDM MUX 8CH 16Wavelengths (TX: Cxx/Cxx/Cxx/Cxx/Cxx/Cxx/Cxx/Cxx RX:Cxx/Cxx/Cxx/Cxx/Cxx/Cxx/Cxx/Cxx) with MON Port LC/UPC Single Fiber LGX BOX
FM-DWMU-BD8-CXXXXB	DWDM MUX 8CH 16Wavelengths (TX: Cxx/Cxx/Cxx/Cxx/Cxx/Cxx/Cxx/Cxx RX: Cxx/Cxx/Cxx/Cxx /Cxx/Cxx/Cxx/Cxx) with MON Port LC/UPC Single Fiber LGX BOX
Others	Customer Specified

**Note:** FM-DWMU-BD8-C4358A and FM-DWMU-BD8-C4358B used in pair.