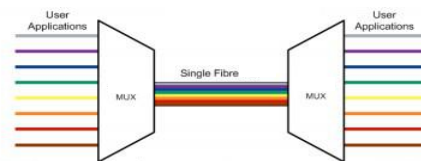


maxcom MX-DWDM-UL Series

Maxcom Muxes and DeMuxes are a high density, ultra-low loss and standalone passive optical devices. They are configured for up to forty 100GHz spaced channels in a 1U package, maximizing the capacity of the C-band range.

Multiplexer products combine multiple data signals (wavelengths) for transport over one fiber. De-multiplexers separate the signal at the other end. To manage bandwidth and expand capacity of existing fiber optic backbones, Wavelength Division Multiplexing (WDM) works by simultaneously combining and transmitting multiple signals at different wavelengths through the same fiber in either direction. WDM-based networks can carry different types of traffic at different speeds. The MUX/DEMUX is deployed in dense wavelength division multiplexing (DWDM). The device is passive when it comes to electricity and measures as 1RU 19" device. The device comes with optional LC/UPC, LC/APC and some models are available with SC connectors. The MUX devices are available 8, 16, 32 and 40 channels. Custom versions are available upon request.

Muxes are available in Single Fiber versions (Mux or Demux) and Dual Fiber (Built in Mux and Demux)



Parameter	Value		
ITU Channels	32 and 40 channels	16 channels	8 channels
Operating Wavelength	1520-1570nm	1520-1570nm	1520-1570nm
Channel Spacing	100GHz (0.8nm)	100GHz (0.8nm)	100GHz (0.8nm)
Channel Passband	± 0.11nm	± 0.11nm	± 0.11nm
Center Wavelength Accuracy	± 0.05nm	± 0.05nm	± 0.05nm
-1dB Channel Bandwidth	0.24nm	0.24nm	0.24nm
-3dB Channel Bandwidth	0.43nm	0.43nm	0.43nm
Insertion Loss	4.5dB, 3.5dB typical	3.5dB, 2.7dB typical	2.5dB, 2.0dB typical
Insertion Loss (1% Mon)	26dB	26dB	26dB
Adjacent Channel Isolation	25dB	30dB	30dB
Non-adjacent Channel Isolation	29dB	40dB	40dB
Insertion Loss Uniformity	1.5dB	1.5dB	1.5dB
Return Loss	40dB	40dB	40dB
Directivity	40dB	40dB	40dB
Polarization Dependent Loss	0.3dB	0.3dB	0.3dB
Polarization Mode Dispersion	0.1ps	0.1ps	0.1ps
Power Handling	300mW	300mW	300mW
Operating Temperature	-5° C~ +65° C	-5° C~ +65° C	-5° C~ +65° C
Storage Temperature	-40° C~ +85° C	-40° C~ +85° C	-40° C~ +85° C

Various Form Factors available:

- LGX module (8 and 16 channel versions)
- Rack mount (8, 16, 32 and 40 channel versions)
- Plastic ABS box with pigtails
- Custom (customer specified)



19" 1RU Rack Mount



LGX Module



ABS Plastic box with pigtails

Ordering Information	Let us know your preferences:
Number of Channels	Select 8, 16, 32 or 40
Connector Type	Select LC/UPC, LC/APC, SC/UPC, SC/APC
Form Factor	Select 1RU, LGX, ABS, or Custom
Select DWDM Channels	Select DWDM ITU Channels: Customer Choice
Select Single Fiber or Dual Fiber: (Single Channel Mux), (Single Fiber Demux), or (Dual Fiber Mux and Demux combined)	

Contact a Maxcom Representative to help you design a DWDM Mux with your needed wavelengths and configurations. Maxcom specialized in custom optical products.