



- | Mux and Demux in one shelf
- | Passive MUX/DEMUX for wavelengths aggregation
- | Up to 40 channels fixed multiplexing per chassis
- | Ext port for cascading more chassis to allow multiplexing much wavelengths
- | 19" 1U package
- | Stand-alone MUX/DEMUX device working with CATS platform
- | Easy to install, operate and manage



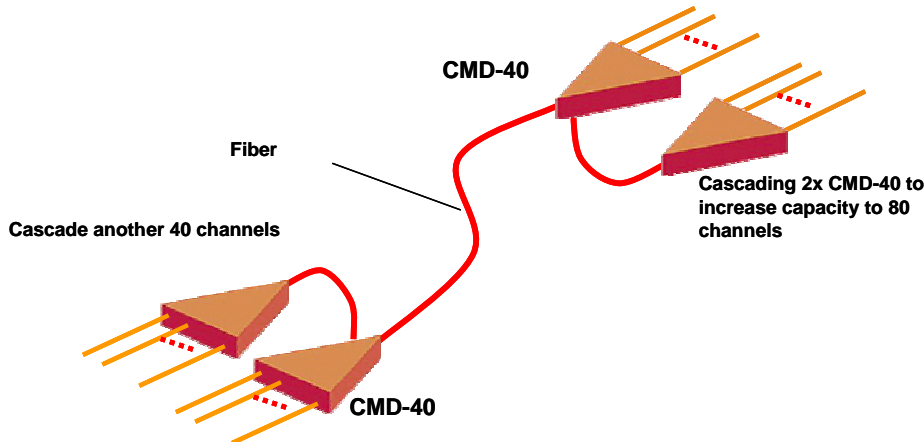
The DWDM MUX/DEMUX filter CMD-40, as part of CATS WDM solutions, enables service providers to multiplex up to 40 channels into one fiber. Ext ports are provisioned to cascade more chassis multiplexing much more wavelengths.

### System Features

- | 40 channels MUX and DEMUX
- | Ext port for more channels expansion
- | Passive shelf
- | 1RU 19" shelf

CMD-40 could be used with CATS1000/3000/6000 as an option element for easy installation, provisioning and maintenance. Network operators can now provision and manage end-to-end high bit-rate data services using a single platform in an efficient and cost-effective manner.

Application example figure A below: Cascade wavelength

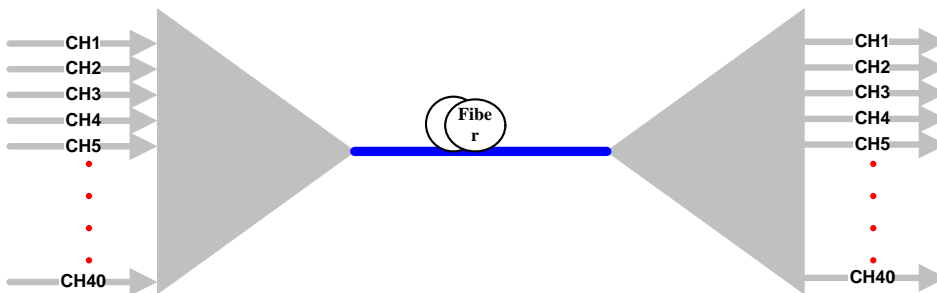




## Technical Information

Optical Performance	
Channels	40
Channel Spacing	100GHz
WDM center wavelength(nm),	ITU z to ITU z + 39
Passband Region	ITU ± 12.5GHz
Insertion Loss(a)	<5.0dB(Passband)
Isolation	>25dB(Adjacent Channel Passbands) >40dB(Non-Adj Channel Passbands)
IL Variation	<0.5dB(Passband)
Channel to Channel Variation	<1.5dB(Passbands)
General Optical Performance	
Directivity-100GHz ports	>50dB
Return Loss	>45dB
Polarization Dependant Loss	<0.25dB
Polarization Mode Dispersion	<0.15ps
Power Handling	>300mW
Temperature Ranges	
Operating Temp	-5 to 70°C
Storage Temp	-40 to 85°C
Mechanical and Package	
Dimensions (LxWxH, mm)	482.6 x 240x44.3
Fiber Type	SMF-28 250 um
Connector Type	LC/UPC

### Application Example figure B below: wavelength multiplexing and DeMultiplexing



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### Revision History

Date	Revision	Brief Description
11/2/2007	1.0	First release
1/9/2008	1.1	Added application example
3/6/2008	1.2	PDL changed to <0.25dB PMD changed to <0.15dB