Features

- Low Insertion Loss
- High isolation
- Compact Design
- Good channel-to-channel uniformity
- Wide Operating Wavelength: 1260~1620nm
- Wide Operating Temperature: from -5˚C to 75˚C
- High reliability and high stability
- 1U 19” expansion port cascade

Applications

- DWDM System
- PON Networks
- CATV Links

Compliance

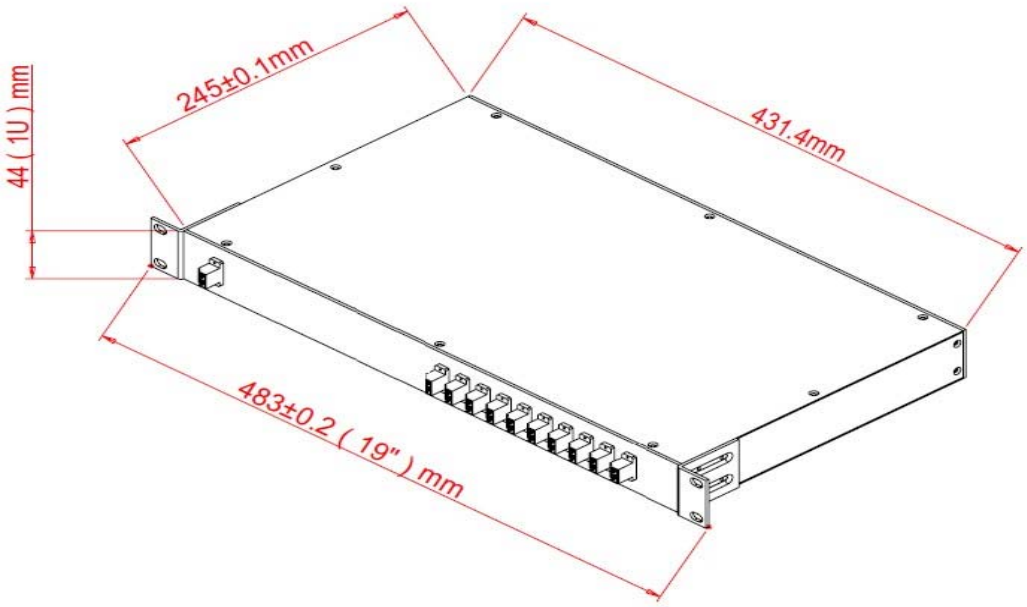
- Telcordia GR-1209-CORE
- Telcordia GR-1221-CORE
- RoHS

The Optech DWDM (Dense Wavelength Division Multiplexing) MUX/DEMUX (Multiplexer/Demultiplexer) is a multi-channel DWDM device designed for ITU channel spacing applications. It is based on the Thin Film Filter (TFF) technology and operates at 100GHz or 200GHz channel spacing ITU Grid DWDM wavelengths from 1526nm to 1565nm. Optech provides a series of customized DWDM MUX/DEMUX devices packaged in 19-inch 1U rack mount to meet different requirements on port configuration (2 to 18 channels, 1310nm/ upgrade (expansion port) /monitoring ports available), operating wavelength, package type, fiber type, fiber length, input connector, and output connector. Monitor port is used for signal monitoring or testing. Network administrators will connect this port to the measurement or monitoring equipment to inspect whether the signal is running normally without interrupting the existing network.

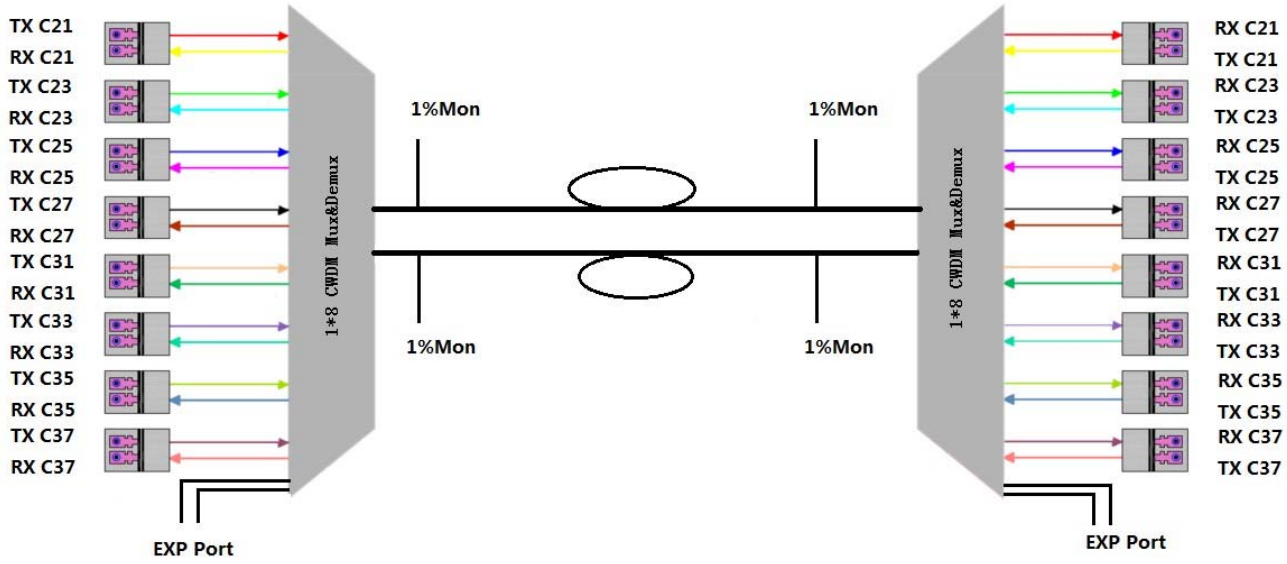
Specifications

Parameters		8CH+EXP+Monitor
Channel Space (GHz)		100
Center Wavelength (nm)		C21/C23/C25/C27/C31/C33/C35/C37
Center Wavelength Accuracy (nm)		±0.05
Channel Pass band (@-0.5dB) (nm)		±0.11
Fiber Type		G657A
Insertion Loss (dB)	Line Channel	≤3.5
	Expansion Port, per module	≤3.0
	1%Monitor Port	≥20
Channel Insertion loss, per system (Mux + Demux) (dB)		≤4.0
Isolation (dB)	Adjacent Channel	≥30
	Non-Adjacent Channel	≥40
	Expansion Port	≥12
Ripple (dB)		≤0.4
PDL (dB)		≤0.2
PMD (ps)		≥0.1
RL (dB)		≥45
Channel Insertion loss uniformity, per module (dB)		≤1.5
Directivity (dB)		≥50
Maximum Optical Power (mw)		≤300
Operating Temperature (℃)		-5～75
Storage Temperature (℃)		-40～85
Package (mm)		483*245*44
Connector		SC/PC

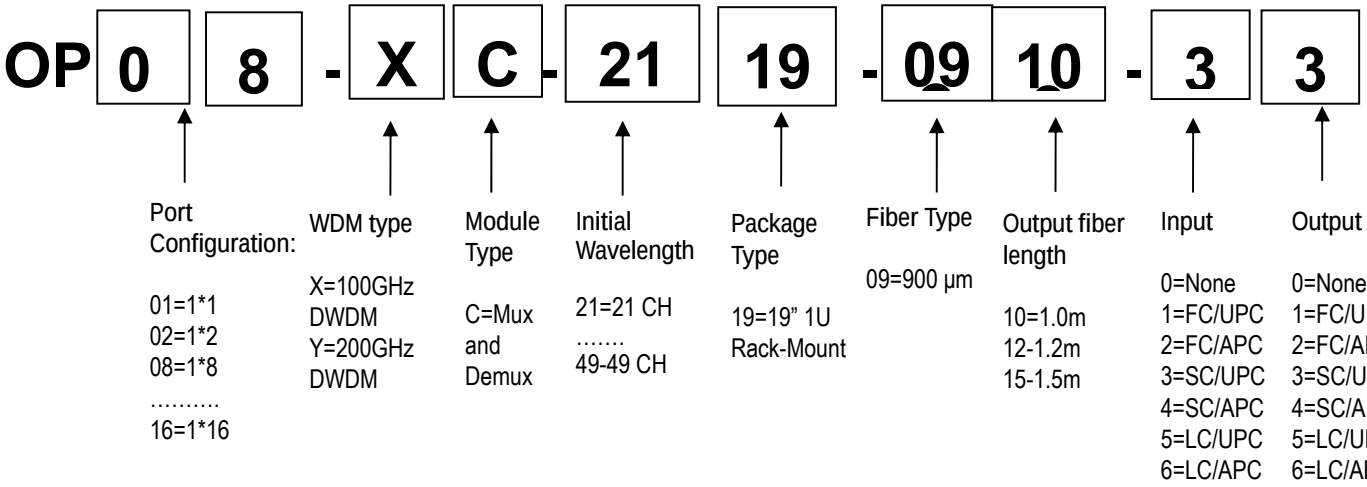
Dimensions



Structure Diagram



Ordering Information



Modification History

Revision	Date	Description
A1	Aug. 2016	Initial Release
A2	Sep. 2022	Revised

Note: All information contained in this document is subject to change without notice.