

oWAVE12xxC/D

Passive C/DWDM Mux/Demux

C/DWDM WDM

MUX/DEMUX MODEL

- oW1208C
- oW1216C
- oW1216D
- oW1240D
- oW1204CB
- oW1208CB
- oW1208DB
- oW1216DB

FEATURES

- Applicable to CWDM or DWDM
- Up to 40 Channel wavelength
- Passive
- ITU Standard Compliance
- Low return loss

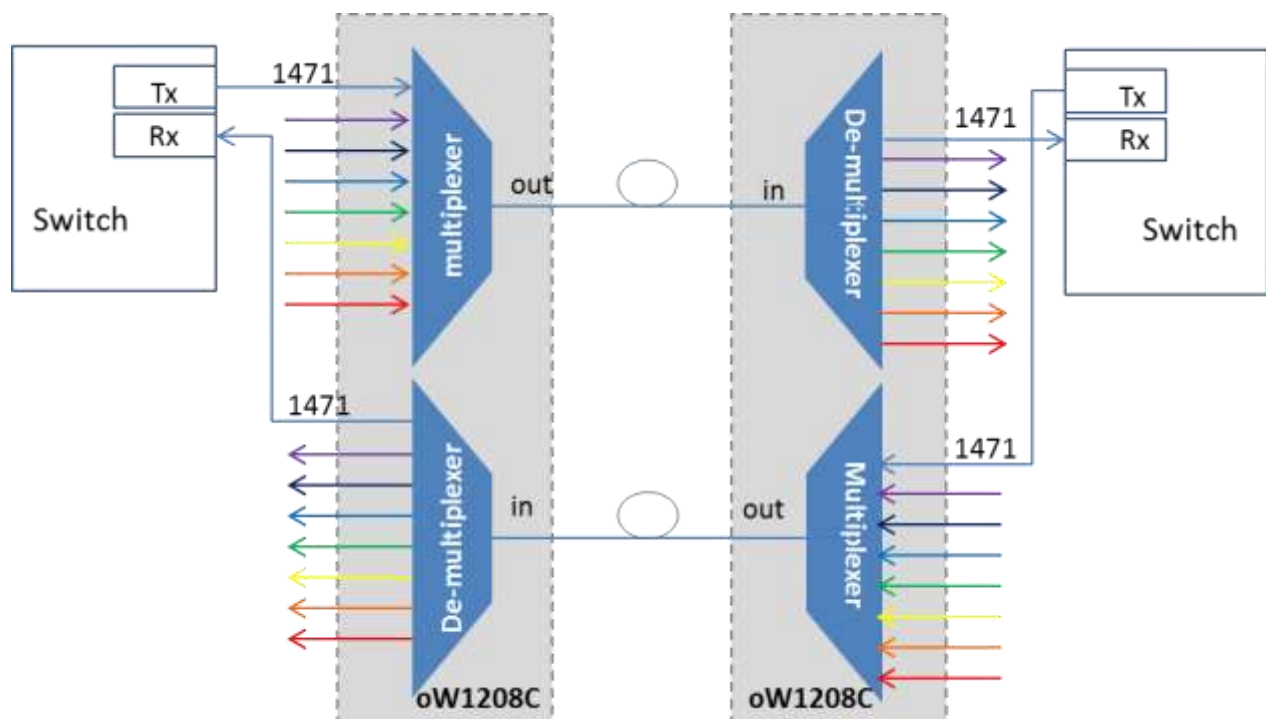


In general, a WDM system uses a multiplexer at the transmitter to join the signals together and a de-multiplexer at the receiver to split them apart. eWAVE Networks manufactured a compact (1RU size) chassis of Mux/Demux device which helps user to save CAPEX with this cost-effective product and solution. This product has high flexibility and wavelength is customizable based on different network application scenario and requirement.

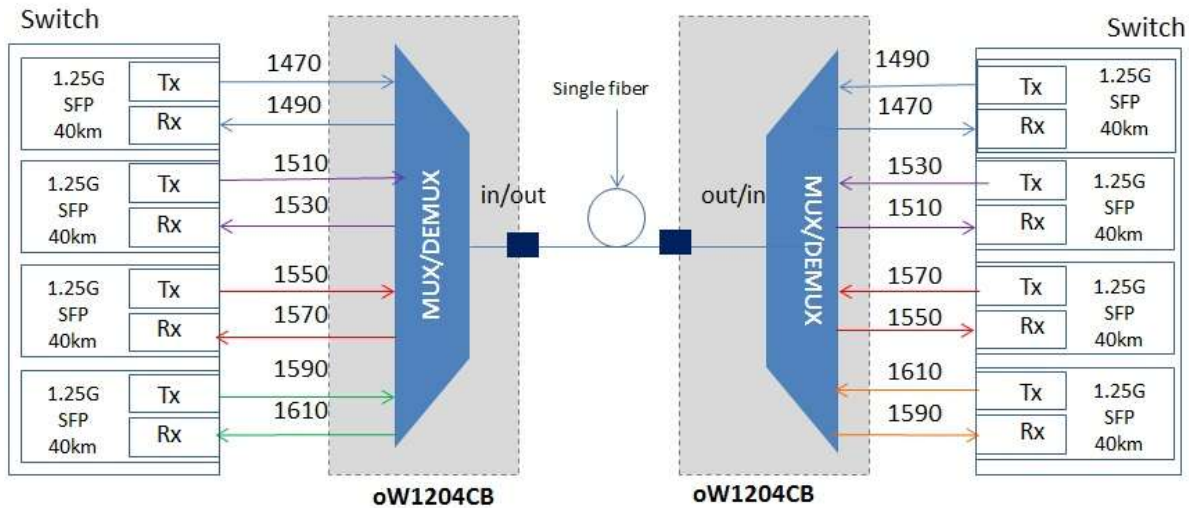
oWAVE12xxD is used for multiplexing and de-multiplexing up to 40 channels of DWDM wavelengths at hub node or Point-to-Point application with dual fiber connectivity. While for oWAVE12xxC, it is up to 16 channels of CWDM application.

Application: Telecommunication system, High speed multi-wavelength system, CATV links and fiber sensors.

Dual Fibers Connectivity CWDM Application with oW1208C:



Single Fiber Bidirectional Connectivity CWDM Application with oW1204CB:



Technical Specification:

PARAMETER	SPECIFICATION						UNITS
	CWDM ²			DWDM ³			
	MIN.	TYP.	MAX.	MIN.	TYP.	MAX.	
Channel spacing	20			0.8			nm
Channel number ¹	16			40			
Center wavelength	ITU-T Grid (1471nm ~ 1611nm)			ITU-T Grid			λ_c
Pass band width	$\lambda_c \pm 6.5$			$\lambda_c \pm 0.11$			nm
Insertion Loss ⁴	Add/Drop	2.5	3.2		3.8	4.5	dB
Isolation	Adjacent Channel	30		25			dB
	Non-adjacent Channel	45		45			dB
Pass band ripple			0.5			0.5	dB
Directivity	50			50			dB
PDL			0.2			0.25	dB
PMD			0.15			0.15	Ps
Return loss	45			45			dB
Operating Temperature	-5		+70	-5		+70	°C

Footnote:

- Customizable channel number based on network application scenario.
 - Channel number is 4/8 for single fiber CWDM application with product oW1204/8CB.
 - Channel number is 16 for dual fiber C/DWDM application with product oW1216C/D.
 - Channel number is 40 for dual fiber DWDM application with product oW1240D.
- Specific technical specification for 8 channels CWDM application.
- Specific technical specification for 16 channels DWDM application.
- Insertion loss for oW1216C: Typical 4.3dB; Max 5.0dB
- Naming Information: oWAVE12xx C/D/B
 - xx indicates number of channels (2/4/8/16/32/40).
 - C indicates CWDM.
 - D indicates DWDM.
 - B indicates Bidirectional.