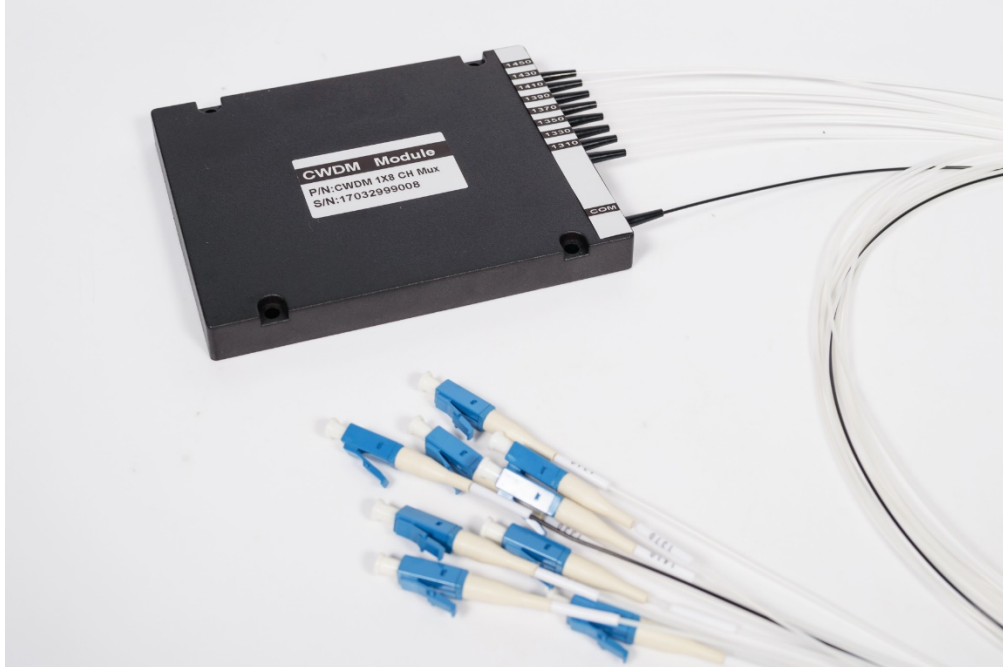


Product Specification

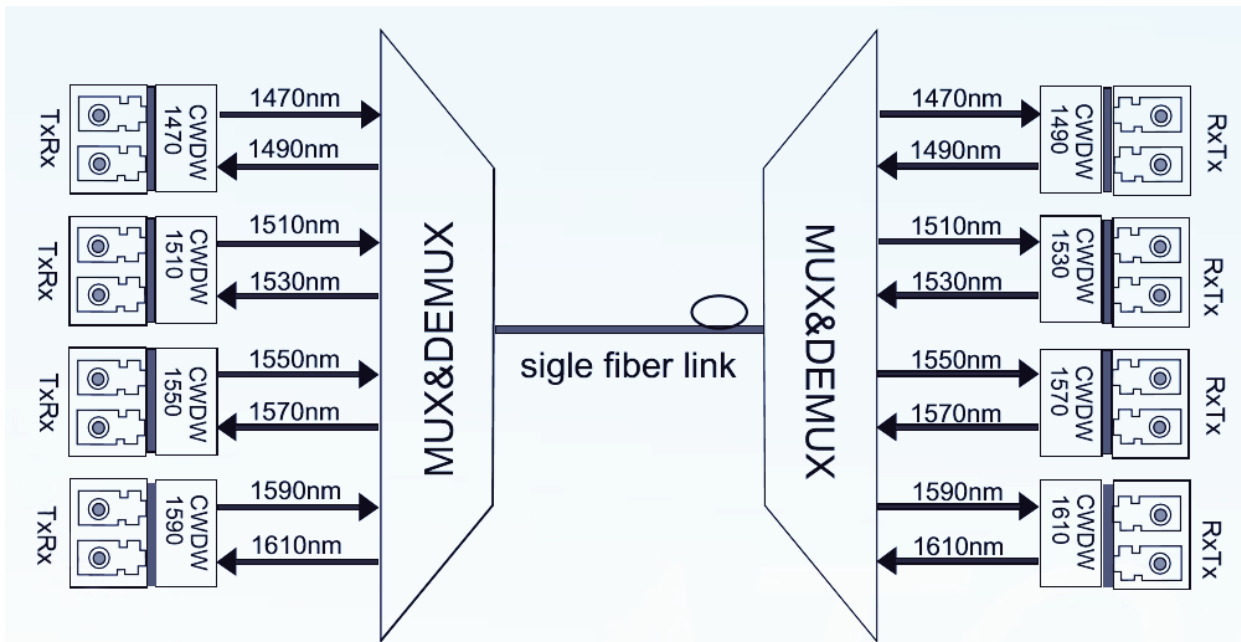
CWDM MUX-DEMUX



RCI Coarse Wave Division Multiplexing (CWDM) modules combine or split up to 18 wavelengths into a single fiber. CWDM technology uses ITU standard 20nm spacing between the wavelengths, from 1270nm to 1610nm. Our CWDM module has 4 to 18 channels. The central wavelength of each channel is specified to one of the ITU-T grid wavelengths. The CWDM module features wide channel bandwidth (13nm). Its isolation is greater than 30dB for adjacent channels, and greater than 40dB for non-adjacent channels. The module also has high thermal stability to ensure reliable performance under different environment

Product Features

- ✧ Low Insertion Loss
- ✧ High Isolation
- ✧ Low PDL
- ✧ Compact Design
- ✧ Good channel-to-channel uniformity
- ✧ Wide Operating Wavelength: From 1260nm to 1620nm
- ✧ Wide Operating Temperature: From -40 to 85



4 channels Simplex BIDI Transmission CWDM Mux and Demux Simplex Bi-Directional Transmission should be used in pairs, MUX/DEMUX Port for specific wavelength must be opposite CWDM.

Application	
CWDM System	CATV Links
PON Networks	

Compliance	
Telcordia GR-1209-CORE-2001	RoHS
Telcordia GR-1221-CORE-1999	

CWDM Specifications						
Center Wavelength	nm	ITU, ITU+1				
Wavelength Range	nm	1260 ~ 1620				
Channel Center Wavelength	nm	1270 / 1290 / ... / 1610 or 1271 / 1291 / ... / 1611				
Channel Spacing	nm	20				
Channel Passband	nm	$\lambda_c \pm 7.5$				
Channel No.	λ	2	4	8	16	18
Insertion Loss	dB	≤ 0.8	≤ 1.5	≤ 2.5	≤ 5.2	≤ 6.4
Adjacent Channel Isolation	dB	≥ 30				
Non-adjacent Channel Isolation	dB	≥ 40				
Wavelength thermal stability	nm/°C	≤ 0.003				

Insertion loss thermal stability	dB/°C	≤ 0.005			≤ 0.007	≤ 0.008
PDL	dB	≤ 0.1	≤ 0.15	≤ 0.15	≤ 0.20	≤ 0.25
Polarization mode dispersion	ps	≤ 0.1			≤ 0.15	
Directivity	dB	≥ 50				
Return loss	dB	≥ 45				
Optical Power	mW	≤ 500				
Operating Temperature	°C	-10 ~ +70				
Storage Temperature	°C	-40 ~ +85				
Relative Humidity	%	5 ~ 95				
Dimension		ABS Box or LGX Box or 1U(2U) Rackmount				

Note:

1. Customization is available.
2. We can make low insertion loss solution as well.
3. Specified without connector, and add an additional 0.2dB loss per connector.

For more information, please feel free to contact at sales@romsat.ua