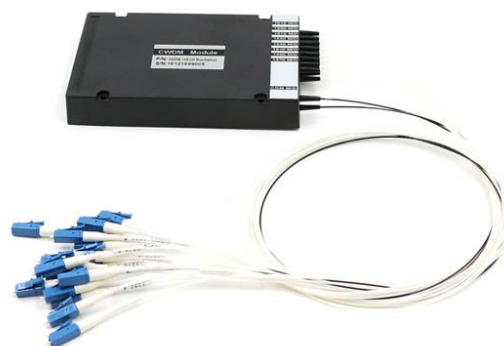




# 8ch Dual Fiber CWDM-MUX/DEMUX

AP-CWDM-8MDD-ABS



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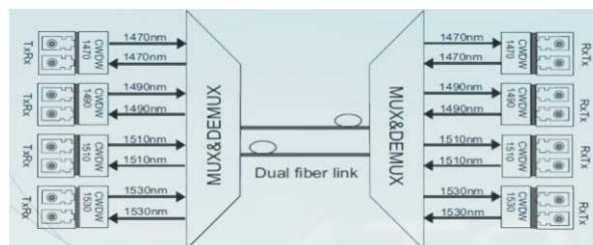
ATOP CWDM MUX/DEMUX can combine or separate 18 wavelengths into a single optical fiber. The wavelength interval of each group is 20nm. The device has 4–18 channels with a wide channel bandwidth of 13nm, and the adjacent channel interval is more than 30dB, and the non-adjacent channel interval is more than 40dB. The product has high stability in various environments and is complied with ITU standards.

## Product Features

- ✓ Low insertion loss
- ✓ High isolation
- ✓ Low polarization
- ✓ Compact design
- ✓ Good uniformity
- ✓ Wide wavelength range
- ✓ Industrial operating temperature

## Applications

- ✓ CWDM MUX/DEMUX
- ✓ Cable TV connection
- ✓ Passive optical network



## Regulatory Compliance

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

Parameter	Unit					
Center wavelength	nm	ITU, ITU+1				
Wavelength range	nm	1260~1620				
Channel center wavelength	nm	1270 / 1290 / ... / 1610 or 1271 / 1291 / ... /1611				
Channel interval	nm	20				
Channel passband	nm	$\lambda_c \pm 7.5$				
Channel number	$\lambda$	2	4	8	16	18
Insertion loss	dB	$\leq 0.8$	$\leq 1.5$	$\leq 2.5$	$\leq 5.2$	$\leq 6.4$
Adjacent Channel Isolation	dB	$\geq 30$				
Non-adjacent Channel Isolation	dB	$\geq 40$				
Wavelength heat	nm/°C	$\leq 0.003$				
Insert loss heat	dB/°C	$\leq 0.005$		$\leq 0.007$		$\leq 0.008$
Polarization	dB	$\leq 0.10$	$\leq 0.15$	$\leq 0.15$	$\leq 0.20$	$\leq 0.25$
Dispersion	ps	$\leq 0.1$			$\leq 0.15$	
Directivity	dB	$\geq 50$				
Return loss	dB	$\geq 45$				
Optical power	mw	$\leq 500$				
Operating temperature	°C	-10~+70				
Storage temperature	°C	-40~+85				
Relative humidity	%	5~95				
Size	ABS Box or LGX Box or 1U(2U) Rack-mount					
Package	1U, 2U					
19 inch mounting rack	1U					

## Revision History

Revision	Initiated	Reviewed	Approved	DCN	Release Date
Version1.0	Liudong	Sunbin	Dingzheng	New Released.	March 28, 2017
Version1.1	Zhoukadan	Tangzhiqiang	Dingzheng	Update the new template.	July 28, 2020



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