

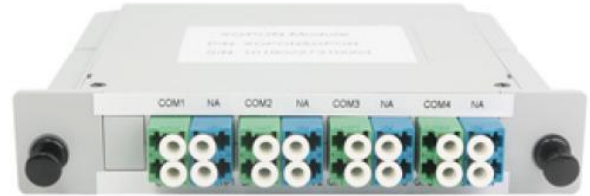
CEx-WDM Module Spec



WDM module or coexistence element designed to enable the implementation of PON access network evolutions such as XGS-PON and NG-PON2. Designed for scenarios in which services are already offered using GPON and it is desired to deploy new FTTH access technologies, allowing not only the coexistence of all of them, but the OTDR and RF signals too.

Features

- Low Insertion Loss
- High Isolation
- Low PMD
- Compact Design
- High stability and reliability



Application

10G-PON Networks

Performance Specifications

Parameters	Specifications		Unit
	GPON / XGPON / NGPON2 / OTDR		
Operating Wavelength	1260-1650		nm
Channel Wavelength	GPON	1290~1330&1480~1500	nm
	XGPON	1260~1280&1575~1580	nm
	NGPON2	1524~1544&1596~1603	nm
	OTDR	1625~1650	nm
Insertion Loss ¹	COM=>GPON	≤0.8	dB
	COM=>XGPON	≤1.2	dB
	COM=>NGPON2	≤1.4	dB
	COM=>OTDR	≤1.2	dB
Isolation	GPON@XGPON/NGPON2	≥30	dB
	XGPON@GPON/NGPON2	≥30	dB
	NGPON2@GPON/XGPON	≥30	dB
	OTDR	≥15	dB
Insertion Loss Temperature Sensitivity	≤0.5		dB
Wavelength Temperature Shifting	≤0.002		nm/°C
Polarization Dependent Loss	≤0.2		dB
Polarization Mode Dispersion	≤0.1		ps
Directivity	≥50		dB
Return Loss	≥45		dB
Maximum Power Handing	300		mW
Operating Temperature	-10~+70		°C
Storage Temperature	-40~+85		°C
Package size	L100×L80×H10		mm
	Rackmount		

*Notes: 1. Insertion Loss tested without connector.

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Order information:

FWDM PN: FWDM-XXXXXXXX-XX (FWDM+9 Code+2 Serial Number)

FWDM	X	XXX	X	X	X	X	X	XX						
	Type	Operate Wavelength	Package Type	Fiber Jacket	Fiber Length	Connector	Channe							
1	FWDM	131	T13 R14/15	1	Glass:4.0×25	0	250um Bare Fiber	0	0.5m	0	none	1	1CH	S N
2	Red Blue	149	T14 R13/15	2	Glass:3.2×25	1	0.9mm Loose	1	1.0m	1	SC/UPC	2	2CH	
3	GPON WDM	155	T15 R13/14	3	Steel:5.5×34	2	2.0mm Loose	2	1.5m	2	SC/APC	3	3CH	
4	LAN WDM	161	T16 R13/14/15	4	Steel:5.5×38	3	3.0mm Loose	3	2.0m	3	FC/UPC	4	4CH	
5	CWDM 4skip0	340	T13/14 R15	5	Steel:3.8×34	4	0.9mm Tight Tube	4	2.5m	4	FC/APC	5	5CH	
6	CWDM 8skip0	350	T13/14/15 R16	A	ABS:90×20×10	5	2.0mm Tight Tube	5	3.0m	5	LC/UPC	6	6CH	
7	CWDM 10skip0	450	T14/15 R13	B	ABS:80×58×8	6	3.0mm Tight Tube	6	3.5m	6	LC/APC	7	7CH	
8	CWDM	550	T15 R13/14/16	C	ABS:80×60×12	M	MM Fiber	7	0.7m	7	ST/UPC	8	8CH	
9	CWDM	831	850/1310	D	ABS:100×45×10	P	PM Fiber	8	1.2m	8	E2000	9	9CH	
A	CWDM 16skip0	904	980/1040	E	ABS:100×80×10	S	Special	9	2.7m	9	MPO	A	10CH	
B	DWDM 2skip0	906	980/1060	F	ABS:120×80×18			S	Special	S	Special	B	11CH	
C	DWDM 4skip0	955	980/1550	G	ABS:140×114×18							C	12CH	
D	DWDM 4skip1	536	1536	H	Metal Box							D	13CH	
E	DWDM 6skip0	554	1554	J	Insert Box							E	14CH	
F	DWDM 7skip1	555	1555	K	Rackmount							F	15CH	
G	DWDM 8skip0	556	1556	L	LGX Box							G	16CH	
H	DWDM 8skip1	270	CWDM 1270	M	Pallet Type							H	17CH	
J	DWDM 9skip1	271	CWDM 1271	S	Special							J	18CH	
S	Special	C21	DWDM C21									K	19CH	
		H20	DWDM H20									L	20CH	
										S	Special	
		S	Special											

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