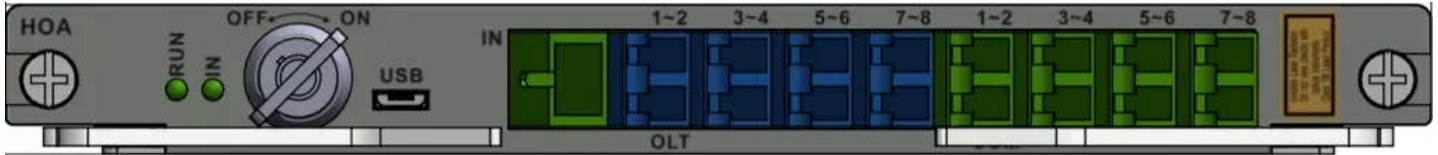
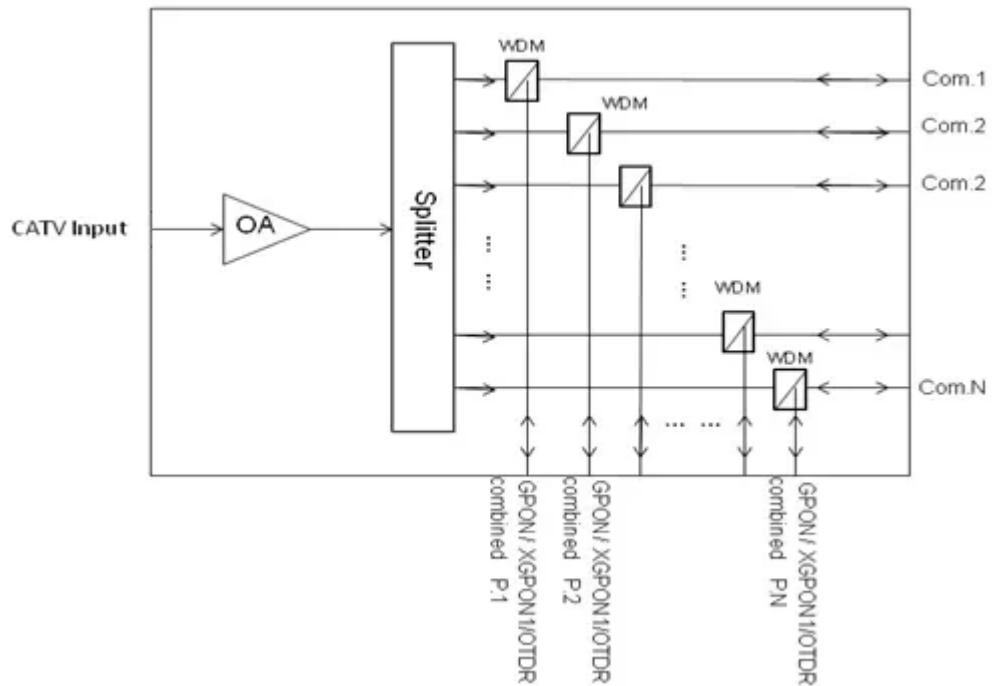


## 16 Channels GPON/XGPON High Power EDFA Card with WDM



HOA EDFA can combine 8 channels GPON/XGPON signals and 8 channels CATV to realize WDM (wavelength division multiplexing).



### Technical Parameters

No.	Item	Min.	Typ.	Max.	Unit
<b>1</b>	<b>GPON/XGPON1/OTDR+CATV WDM Optical Specifications</b>				
1.1	CATV Port Wavelength range( $\lambda_1$ )	1545- 1565			nm
1.2	PON Port wavelength range( $\lambda_2$ )	1260 - 1360 & 1480 - 1500 & 1575 - 1581 & 1610 - 1660			nm
1.3	Input power	-10	0	10	dBm
1.4	Output power (every port for 8 ports)	18	19	20	dBm
1.5	Output Power uniformity (Among output ports)		$\pm 1$ dB		dB
1.6	Output Power Stability	-0.5		0.5	dB
1.7	NF ( $I_n=1$ dBm, $\lambda=1550$ nm)		5.5	6	dB
1.8	Pump leakage @ Input/output port			-30	dBm
1.9	Isolation @ Input/output port	30			dB
1.1	PMD (Polarization Mode Dispersion)			0.5	ps
1.11	PDG(Polarization dependent gain)			0.5	dB
1.12	RL(Optical Return Loss)	50			dB
1.13	Insertion loss (IP wavelength) @ $\lambda_2$			1	dB
1.14	Directivity( $P \ll R$ )	50			dB
1.15	Output power adjustable	Output power can control 5 dB			
<b>2</b>	<b>Interface Specifications</b>				
2.1	Optical connector	CATV input port: SC/APC			
		GPON input port: LC/UPC			
		COM output port: LC/APC			
2.2	Number of input /output ports	CATV input :1			
		GPON input:8			
		COM output:8			
<b>3</b>	<b>Built-in WDM Specifications</b>				
3.1	CATV Port Wavelength range( $\lambda_1$ )	1545- 1565			nm
3.2	PON Port wavelength range( $\lambda_2$ )	1260-1360 & 1480-1500 & 1575 - 1581 & 1616 -1660			nm

3.3	Insertion Loss	Pass Band			1	dB
		Reflection Band			1	dB
3.4	PDL (Polarization Dependent Loss)				0.1	dB
3.5	PMD (Polarization Mode Dispersion)				0.1	Ps
3.6	Isolation (Com→PON@λ1)		15			dB
3.7	Isolation (Com→CATV@λ2)		40			dB
3.8	PON Signal pass through when EDFA is turn off		1577, 1270 & 1310, 1490 & 1625/1650			nm
3.9	Power Tolerance				26	dBm
3.1	Constant Output		@ variable input: -6 ~ +8 dBm			

