

HT8500M (CNR≥53.5dB, SBS:13~19 adjustable)

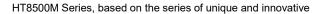
FTTP Multi-port output 1550nm external

modulation 47~862MHz

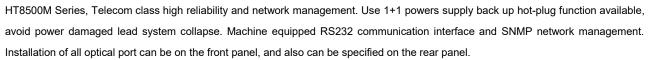
PRODUCT DESCRIPTION

HT8500M series, Multi-optical port output externally modulated transmitter, a research product which is designed for FTTx PON large area and multi-user access.

HT8500M series, use high-power , low noise, narrow linewidth, continuous broadcast, DFB lasers. It can provide 4~10 way high linearity standard optical power output. It can connect 4~10 units high-power FTTB EDFA(Like HA5837-32). AS this product without EDFA, so each optical port can out put up to :CNR≥53.5dB, CTB≥-65dB, CTB≤-65dB, the high technical index.



chassis, SBS can reach 13 ~ 19dBm adjustable, suitable for high-power EDFA applications.



HT8500M series, Multi-optical port output FTTP externally modulated transmitter, Its high index, high reliability and excellent cost performance, for large and medium cities CATV network, to achieve local large area, multi-user coverage, providing high performance, high-index access.

- •HT8547M:4 optical port output, each port≥7.0dBm, CNR≥53.5dB, SBS: 13~19dBm continuous adjustable.
- •HT8567M:6 optical port output, each port≥7.0dBm, CNR≥53.5dB, SBS: 13~19dBm continuous adjustable.
- •HT8585M:8 optical port output, each port≥4.5dBm, CNR≥53.5dB, SBS: 13~19dBm continuous adjustable.
- •HT85A5M:10 optical port output, each port≥4.5dBm, CNR≥53.5dB, SBS: 13~19dBm continuous adjustable.





PRODUCT FEATURE

- Using high-power, continuous wave DFB laser, which provides 4-way, 6 way, 8 way,10 way high linearity standard optical power output, can be linked more FTTP EDFA.
- ► Innovation SBS: 13 ~ 19dBm adjustable.
- ► Telecom class high reliability and network management.
- ► High system indicators: CNR≥53.5dB, CTB≥-65dB, CTB≤-65dB (Without EDFA).
- ► Externally modulated technical no laser chirp, low dispersion distortion, large extinction ratio, 47 ~ 862MHz band have good features.
- Narrow linewidth (Typ. = 0.65MHz),low noise, DFB continuous wave laser, helps to reduce the dispersion.
- ► The operating bandwidth is up to 47~1000MHz .
- ► ITU standard wavelength, in the ± 200GHz (± 1.6nm) range can be adjusted.
- AGC / MGC mode is optional at spot; OMI can be optimized at spot.
- ▶ 1+1 powers supply back , up hot-plug function available
- Advanced SNMP network management function, perfect RS232 communicate interface.
- ► Casing temperature auto-control.

MAIN APPLICATION

- ► FTTx PON (FTTH, FTTP)
- ► Large and medium-sized cable television central office front-end local network large area, multi-user access.
- ► DWDM Optical CATV systems value-added services.



TECHNICAL INDEX

	Performance		Index	Additional						
	Mark way along th	(nm)	1540~1563	HT8500M-CR						
	Work wavelength	(nm)	1528.77~1563.86 (ITU)	HT8500M-□□						
	Wavelength adjusting range	(nm)	±1.6	±200GHz						
	Wavelength adjustment method		±0.05nm stepping							
	Wave and work stability	(Pm/℃)	-1~0	Tc=20~70℃						
	Laser line width	(MHz)	Тур.=0.65	FWHM(△λ), (-3dB fullwidth)						
	Side mode suppression ratio	(dB)	≥45	SMSR						
Optical feature	Equivalent noise intensity	(dB/Hz)	≤-160	RIN (20~1000MHz)						
feature			4	HT8547M						
	Number of output port		6	HT8567M						
	Number of output port		8	HT8585M						
			10	HT85A5M						
	Light output number	(dBm)	≥7.0	HT8547M, HT8567M						
	Light output number	(dBiii)	≥4.5	HT8585M, HT85A5M						
	Return loss	(dB)	≥50							
	Optical fiber connector		LC / APC							
	Work bandwidth	(MHz)	47-862	Optional 47~1000MHz						
	Input level	(dBmV)	18~28	AGC						
, D	Flatness	(4D)	≤±0.75	47~862MHz						
RF feature	riauless	(dB)	≤±1.5	862~1000MHz (Optional)						
Ire	Return loss	(dB)	>16							
	Input impedance	(Ω)	75							
	RF connector		F-Female							



-					3				
	Transmit channel		PAL-D/60CH	PAL-D/99CH					
	CNR1	(dB)	≥53.5	≥52.0	Back to back				
Line feature	CNR2	(dB)	≥52.0	≥50.0	65Km optical fiber,0dBm receive				
eature	СТВ	(dB)	≤-65	≤-65					
	CSO	(dB)	≤-65	≤-65					
	SBS restrain	(dBm)	13-	Adjustable					
	SNMP network management interface		RJ	145					
	Communication interface		RS:	232					
	Dawer aunaly	(VAC)	90~	265	50/60Hz				
	Power supply	(VDC)	-4	18	36~72VDC				
General feature	Power Consume	(W)	≤{	50	Single power works				
featur	Operating temp	(°C)	0~	65	Machine temp. control automatically				
Ф	Storage temp.	(°C)	-40	~85					
	Relative humidity	(%)	5~	95					
	Size (W)×(D)×(H)	/"\	19×15.	2×1.75	S-Type				
	SIZE (VV)^(D)^(П)	(")	19×17.	9×1.75	L-Type				

PRODUCT SERIES

Model	Number of	Output power of	Operating	SBS Restrain	System index							
iviodei	output port	each port	wavelength(nm)	(dBm)	CNR1	CNR2	СТВ	cso				
HT8547M	4	≥7.0			≥53.5	≥52.0	≤-65	≤-65				
HT8567M	6	≥7.0	ITU wavelength	13~19	≥53.5	≥52.0	≤-65	≤-65				
HT8585M	8	≥4.5	±200GHz Adjustable	Adjustable	≥53.5	≥52.0	≤-65	≤-65				
HT85A5M	10	10 ≥4.5			≥53.5	≥52.0	≤-65	≤-65				

Test condition:

CNR1: Tx to Rx, 0dBm receiving.

CNR2: 16dBm EDFA (NF4.5~5.5dB),65km fiber, 0dBm receiving.



MODEL NUMBER EXPLIA

HT 85 D D M - DD - DDD - D / D - P / DD																						
	Product type		Product series	Num	nber of output port	Out	tput power		Quality	ITU	J Grid Ch. No.	٧	Vavelength	C	Optical port position	Co	nnector		Chassis length	lumber of wer supply	Pow	er supply
	Analogue optical	85	1550nm external	4	4 fiber output	5	≥4.5dBm	М	Multi-port	CR	1547~1563nm	086	47~862MHz	F	Front panel	LA	LC/APC	S	D:15.2"	Dual PS.	22	220VAC
ľ	transmitter	85	modulation	6	6 fiber output	7	≥7.0dBm	IVI	output	23	1558.98nm	100	47~1000MHz	В	Back panel			L	D:17.9"	Hot plug	11	110VAC
Ī				8	8 fiber output					31	1552.52nm					-					48	-48VDC
				Α	10 fiber output					37	1547.72nm										42	-48VDC&
											15XX.XXnm										42	220VAC