
1550 Optical Transmitter

—External Modulated

1. Overview

HF200-3615E series External Modulated Optical Transmitter is the preferred product of broadband transmission system and large capacity CATV optical transmission system network. Mainly using in optical modulation, optical insertion, WDM, the network upgrade and expansion of the large 1550nm optical transmission system, that is a core device to achieve triple play, FTTX, 1550nm RFTV broadcast network system.

2. Features

- Finely differentiated specification satisfy different network requirement, single/dual output and 3~10dBm output power for choice.
- Using narrow linewidth, low-noise and imported DFB laser as light source, the high linearity LiNbO₃ is as external signal modulator.
- Perfect pre-distortion circuit ensures the best CTB and CSO when the CNR is in high standard.
- Perfect SBS suppress circuit and adjustable SBS, suitable for different transmission distance of network requirement.
- AGC control can let different RF input level keep stable signals output.
- Internal dual power which can be changed automatically.
- Automatically shell temperature control, intelligent fan. It works when the temp reach 32°C.
- The LED displays, the function of laser monitoring, parameter display, fault warning, net management and so on. Once the working parameter of the laser goes out of the fixed value of the software, the machine will warn.
- The transmitter provides standard RJ 45 port for remote control,

support SNMP and adjust the AGC,SBS and OMI.

- The transmitter provides RS232 standard interface for the local network management and monitoring,and it also can let user change the panel display models and specifications.

3. Parameters

Parameters		Index	Remarks
Optical Parameters	Wavelength (nm)	1550±10	
	Laser Type	DFB	
	Light modulation mode	External modulation	
	Output power (dBm)	Specify by customer	2×5、2×6、2×7、2×9 For choice
	Optical return loss (dB)	≥50	
	Connector type	FC / APC or SC/APC	
RF parameters	bandwidth (MHz)	47-862/1000	
	Input level (dBμV)	80±5	AGC
	Flatness (dB)	≤±0.75	45~1000MHz
	Return loss (dB)	> 16	45~750MHz
	Input Impedence (Ω)	75	
Link Parameters	CNR (dB)	≥52	
	CTB (dB)	≥65	
	CSO (dB)	≥60	
	SBS Suppression (dBm)	Continuously Adjustable	13.5、16.5、18.5 for choice
General Parameters	Net interface	RJ45, R232	
	Power (V)	100~240 VAC	Option-48VDC
	Power loss (W)	≤50	
	Working Temp (°C)	0~50	Automatically shell temp control
	Working relative Temp	20%~85%	
	Size (")	19"×11"×1.75"	483 (W) x381 (D) x44 (H)