

ET1550

dibsys

External Optical Transmitter

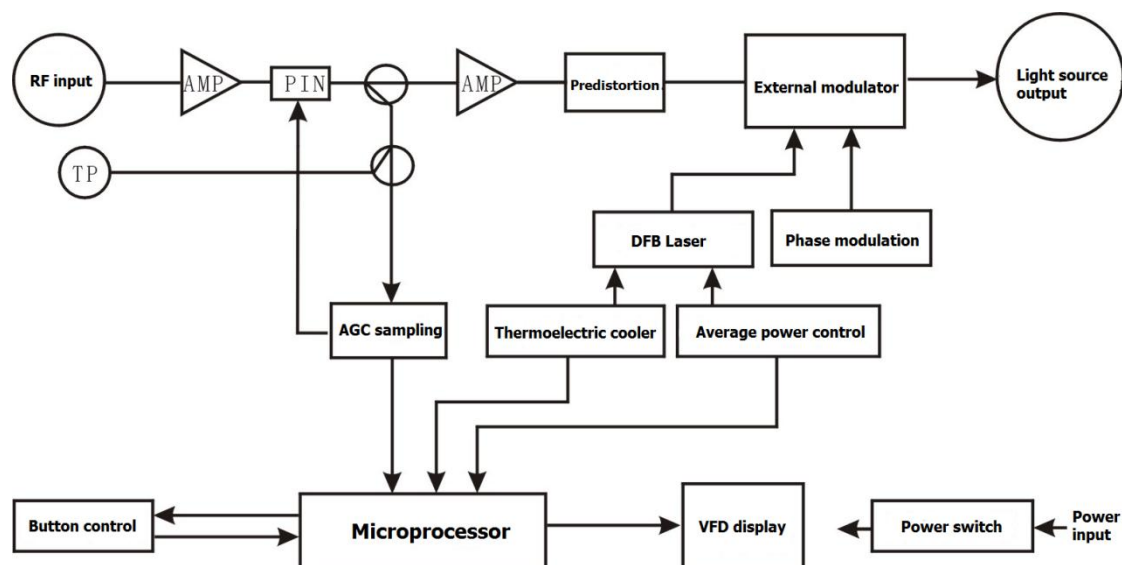


ET1550 external modulation optical transmitter products are new high-performance 1550nm external modulation CATV optical transmitter. The transmitter is 1U height, can be easily installed in the 19" rack. ET1550 transmitter for the 1550 wavelength dual 7dBm light output, the output signal spectral line narrow, in the long-distance transmission, even more advantages. The main device using JDUS, Fujitsu, MITSUBISHI DFB low noise, narrow linewidth, continuous wave laser and JDUS, AVANEX CATV high linearity external modulator with thermoelectric cooler. As the key components adopt the international brand and our company system optimization control technology, so that the machine's technical performance indicators fully meet the standards of similar imported equipment for cable television and telephone communications, it can provide high-quality images, digital or compressed digital signal long-distance transmission.

Features

- **High quality:** original system optimization control technology, RF predistortion technology to ensure excellent performance in the case of CNR system to obtain the largest CTB, CSO and SBS indicators.
- **Flexibility:** Phase modulation technology of the external regulator to maximize the performance of the system CSO, to maximize the fiber into the optical power to obtain long-distance transmission, and SBS threshold 13,16,18 field adjustable, Can be applied to different network transmission.
- **Reliability:** 19" 1U standard rack, built-in high-performance dual switching power supply, can be 85 ~ 2665ac city network voltage in the hot backup work, MS-level automatic switch; chassis cooling can be automatic temperature control.
- **Intuitive:** external modulator and laser is the most expensive device, the machine set up a microprocessor outside the tune and the working state of the laser is monitored, and the operating parameters are displayed by the panel LCD window.
- **Network management:** option status monitoring transponder to ensure compliance with the national standard and compatible with the SCTE HMS standard, can achieve network management monitoring.

Electrical block diagram



Main Specifications

Item	Unit	Performance parameters	Remark
Light wavelength	nm	1550±10	If the deviation from the wavelength before ordering to specify
Light modulation		External	
Light output power	dBm	2*10	Specifications have details
SBS threshold	dBm	18	13,16,18 optional
Optical connector form		FC/APC, SC/APC optional	Please specify before ordering
Frequency Range	MHz	47~(862)1000	
Carrier to noise ratio	dB	≥52.0	According to GY / T143-2000 6.2.3.5
flatness	dB	±0.75	According to GY / T143-2000 6.2.4
RF input signal level	dBuV	75~88	AGC automatic control
Carrier combination third-order beat ratio (C / CTB)	dB	≥65.0	According to GY / T143-2000 6.2.5
Carrier combination second-order beat ratio (C / CSO)	dB	≥65.0	According to GY / T143-2000 6.2.6
RF input impedance	Ω	75	
RF input reflection loss	dB	> 16(47~550)MHz > 14 (550~862)MHz	According to GB / T11381.1
powered by	V	90~265 Electricity	4.2.2.2.5

Operating temperature	°C	0~50	Optional -48VDC
Laser line width	MHz	0.3	
RF connector form	---	Metric F head	
Test port accuracy	dB	-20±1	
Storage temperature	°C	-20~85	
Size	"	19"×11"×1.75"	(W) x(D) x(H)

Note:

- 159 PAL-D analog TV channel signals are arranged in the 550 MHz frequency range under the specified link loss conditions, the digital modulation signal is transmitted in the frequency range of 550 MHz to 750 (862) MHz, the level of the digital modulation signal (8MHz bandwidth) than the analog signal carrier level is 10dB lower, the optical receiver input light rate of 0dBm, the measurement carrier combination Third-order beat ratio (C / CTB), carrier combination second-order beat ratio (C / CSO) and carrier to noise ratio (C / N).
- fiber 50KM + EDFA.