



V8810TE

1550nm Externally Modulated Optical Transmitter

Highlights:



Automatic gain control



Dual Power Redundancy AC/DC Optional



SBS suppression pre-distortion circuit



SNMP/Web Remote Management

Introduction:

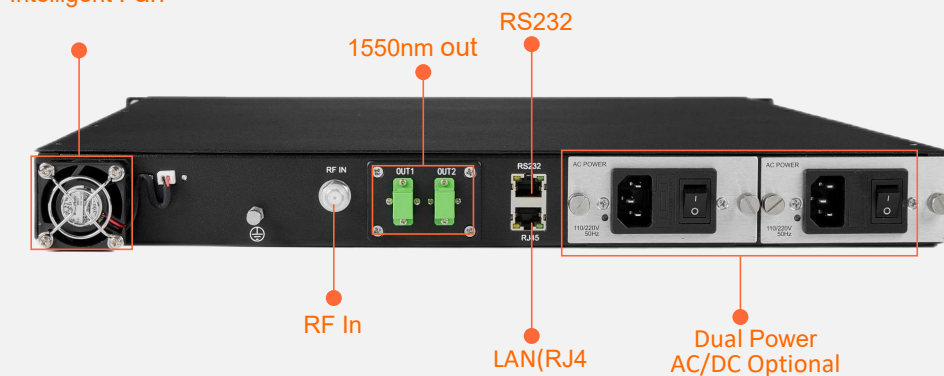
The V8810TE is a 1550nm externally modulated optical transmitter that meets today's international industry technical standards. Designed for long distance transmission and local network coverage, it is widely used in optical modulation, optical insertion, wavelength-division multiplexing (WDM), as well as network upgrading and expansion of large and medium-sized optical transmission systems. Adopting low noise DFB laser and high linearity external modulator, the device is equipped with intelligent temperature control, automatic gain control and remote management functions, which is the ideal core equipment for realizing triple play and FTTX.

Interface Description:

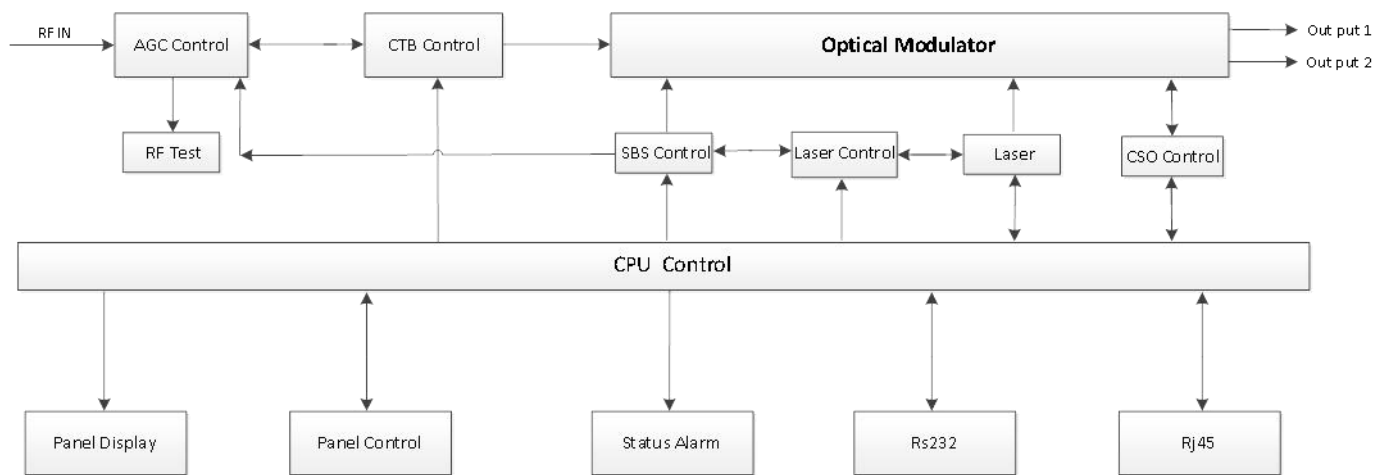
V8810TE Front Panel



V8810TE Rear Panel



Diagram



Features

- It adopts narrow bandwidth & low-noise DFB laser as signal, and high linear LiNbO3 external modulator as external signal modulation.
- The perfect pre-distortion circuit ensures the perfect performance of CTB and CSO in high standard CNR value.
- Advanced SBS dual band suppression circuit, SBS continuously adjustable, adjustable, adjustment range: 13~19 for different distance networks.
- Automatic gain control (AGC) enables stable output in different RF input levels.
- Different networks can be optimized by OMI adjustment.
- Fully automatic case temperature control, intelligent fans, the fans starts to work when case temperature reaches 30 °C.
- Built-in dual backup power supply, hot plug and automatic switch supported.
- The working parameters of the whole machine are controlled by microprocessor and the LCD status display on the front panel has many functions such as laser status monitoring, parameter display, fault alarm, network management, etc.; once the working parameters of the laser deviate from the allowed range set by the software, the system will alarm promptly.
- Standard RJ45 interface provided, supporting remote network management of SNMP and WEB, and remote adjustable of AGC, SBS, OMI and other functions.

Applications

- Large and medium-sized CATV head-end, large capacity backbone network, MAN, ultra long distance transmission.
- FTTH、FTTx PON、RFOG、Triple-play.
- Narrow band inserted data services such as IP/QAM.
- Network upgrading and capacity expansion based on existing optical fiber resource.
- DWDM system.

Category	Items	Unit	Index			Remarks
			Min.	Typ.	Max.	
Optical Index	Wavelength Range	nm	1540		1563	Compatible with ITU wavelength
	No. of Output Ports	No.		2		
	Output Power per Port	dBm		7		V8810TE-7
				9		V8810TE-9
	Laser Linewidth	MHz		0.35		
	SMSR	dB	45	50		
	RIN	dB/Hz			-160	RIN(20~1002MHz)
	Optical Return Loss	dB	50			
Fiber Connector		SC/APC			FC/APC、LC/APC	
RF Index	Operating Bandwidth	MHz	47		1002	
	Input Level	dBμV	75	80	85	AGC
	Flatness	dB	-0.75		0.75	47~1002MHz
	Return Loss	dB	16			
	Input Impedance	Ω		75		
	RF Connector		F Metric/Imperial			Specified by user
Link Index	No. of Test Channels		PAL-D/59CH		PAL-D/84CH	
	CNR1	dB	≥53.0		52	TX to RX, Rx 0dBm
	CNR2	dB	≥51.0		50	Fiber 65Km, Rx 0dBm
	CTB	dB	≥65			
	CSO	dB	≥65			
	SBS Suppress	dBm	13		19	Continuously adjustable, each step 0.1
General Index	Network Management Interface		SNMP, WEB supported			
	Power Supply	V	90		265	AC
			-72		-36	DC
	Power Consumption	W			60	Dual Power Supply, 1+1 standby
	Operating Temp	°C	-5		65	Auto case temp control
	Storage Temp	°C	-40		85	
	Operating Relative Humidity	%	5		95	
	Dimension	mm	450×483×44			W、L、H
Weight	Kg	7.4				

Ordering Information:

Product Name	Wavelength	No. of Output Port	Output Power per Port mW	Power Configuration
V8810TE-7	1550nm	2	7 dBm	2*AC
V8810TE-9			9 dBm	2*DC 1*AC+1*DC