

FTTH CATV



BY FIBER SYSTEM

PRODUCT MANUAL

1550NM EXTERNALLY MODULATED CATV TRANSMITTER

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Product Overview

The Fiber Externally Modulated Optical Transmitter uses a high-power, low noise, narrow linewidth, continuous broadcast, and a DFB laser. It provides 4~10 way high linearity optical power output. It can connect 4~10 units high-power FTTB EDFA. As this product comes standard without an EDFA, each optical port can output up to: $CNR \geq 53.5\text{dB}$, $CTB \geq -65\text{dB}$, $CTB \leq -65\text{dB}$. Furthermore you can easily communicate with this device using the RS232 communication interface with SNMP, plus it comes standard with a 1+1 power supply + hot-pluggable back up which helps avoid power damage. The SBS can reach 13 ~ 19dBm adjustable which is perfect for high-power EDFA applications. The External Modulator does not generate CSO distortion, so it can be used with an EDFA to be used a large coverage area and it's ideal for very-long trunk and local networks. Since Thor Fiber uses the best internal components our Optical Transmitters provide excellent APC, ACC and ATC control, while creating an ideal design that vastly improves ventilation and heat-dissipation so we can ensure a long life expectancy and exceptional reliability of the pump laser.

Main Characteristics



- 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 exceptional reliability and network management.
- System Indicators: $CNR \geq 53.5\text{dB}$, $CTB \geq -65\text{dB}$, $CTB \leq -65\text{dB}$ (Without EDFA).
- Externally modulated no laser chirp, low dispersion distortion, large extinction ratio, 40 ~ 1000MHz band

- 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 $\pm 200\text{GHz}$ ($\pm 1.6\text{nm}$) range can be adjusted.
- AGC / MGC mode is optional at spot; OMI can be optimized at spot.
- 1+1 powers supply back, hot-pluggable functionality available.

Technical Specifications

Performance		Index	Supplement	
Optic feature	Operating wavelength	(nm)	1548~1563 1528.77~1563.86 (ITU)	HT8500M-CR
	Wavelength ADJ. range	(nm)	±1.6	±200GHz
	Wavelength ADJ. mode		±0.05nm stepping	
	Wavelength stability	(Pm/°C)	-1~0	Tc=20~70°C
	Linewidth	(MHz)	Typ.=0.65	FWHM(?λ), (-3dB full width)
	Side mode suppression ratio	(dB)	≥45	SMSR
	Equivalent noise intensity	(dB/Hz)	≤-160	RIN (20~1000MHz)



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