



Multicom 1550nm Optical Transmitter

Key Features

- » Transmits NTSC, PAL, ATC, and related digital information for CATV and/or telephony applications
- » Available in 6 and 10dBm output power
- » High linearity, optically isolated, distributed AM feedback DFB laser
- » 45-1000MHz RF input bandwidth
- » Front panel RF test point (-20dB)
- » Low RF drive levels enabled due to built-in RF amplifier and Automatic Gain Control
- » Microprocessor-controlled diagnostics, front panel LCD display and controls
- » Integrated SNMP network interface
- » Dual online redundant power supplies



Description

Multicom's MUL-1550TX-1000 Direct Modulated Transmitter delivers high performance signal transmission of NTSC, PAL, ATC, QAM, and related digital information for CATV and/or telephony applications. It is based upon custom high-linearity optically isolated DFB (Distributed Feedback) lasers, specifically designed for multi-channel AM video applications. The built-in control circuits provide an exceptionally low noise and inter-modulation characteristics. Automatic output power control, coupled with temperature stabilization provided by a thermoelectric cooler ensures maximum performance and longer laser life.

The units are packaged in slim 1.75-inch high (1RU), 19-inch aluminum rack-mounted enclosures. Each unit is fitted with redundant self-contained power supplies with 90-265VAC inputs.

All internal laser parameters and monitoring functions are under microprocessor control. The front panel displays status information related to laser operation, temperatures, and RF input.

MUL-1550TX-1000-06
MUL-1550TX-1000-10

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Product Specifications

Description

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Technical Specifications

	Specifications	Values	Notes
General	Operating temp. (°C)	0 - 50	32 - 122°F
	Storage temp. (°C)	-40 - 85	-40 - 185°F
	Operating relative humidity (%)	5 - 95	Non-condensing
	Power Supply - Volt AC	90 - 265	
	Power Consumption (W)	25	
	Size (W x D x H inches)	19 x 14.25 x 1.75	
	Interface port	RJ45, RS232	
Optical	Wavelength (nm)	1530 - 1563	
	Output power (dBm)	6 and 10	Depending on model
	Optical connector	SC/APC	
RF	RF Bandwidth (MHz)	45 - 1000	
	Input level (dBmV)	18 - 22	AGC
	Flatness (dB)	-0.75 - +0.75	
	Return loss (dB)	16	75Ω impedance
	RF connector (Main input)	F type	
	CNR (dBc)	-50	79 Channel load, back to back at 0 dBm receive power
	CSO (dBc)	-57	
	CTB (dBc)	-63	

Product Series

Part #	Output Power
MUL-1550TX-1000-06	6 dBm
MUL-1550TX-1000-10	10 dBm

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