



# Multicom 1310nm Optical Transmitter

## Key Features

- » Transmits NTSC, PAL, ATC, and related digital information for CATV and/or telephony applications
- » Available in a variety of output levels
- » High linearity, optically isolated, distributed AM feedback DFB laser.
- » 54-1000MHz RF input bandwidth
- » RF test point (-20dB)
- » Operation wavelength: 1310nm
- » 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



## Description

Multicom's MUL-1310TX-1000-X-SNMP 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.

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-1310TX-1000-X-SNMP**

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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	
	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)	1300 - 1320	
	Output power (dBm)	6 - 14	Depending on model
	Optical connector	SC/APC	
RF	RF Bandwidth (MHz)	45 - 1000	
	Input level (dBmV)	15 - 25	AGC
	Flatness (dB)	-0.75 - +0.75	
	Return loss (dB)	16	75Ω impedance
	RF connector (Main input)	F type	
	CSO (dB)	-63	79 Channel load, back to back at 0 dBm receive power
	CTB (dB)	-70	

### Product Series

Part#	Output Power	CNR
MUL-1310TX-1000-6	6 dBm	≥51 dB
MUL-1310TX-1000-8	8 dBm	≥51 dB
MUL-1310TX-1000-10	10 dBm	≥50 dB
MUL-1310TX-1000-12	12 dBm	≥50 dB
MUL-1310TX-1000-14	14 dBm	≥50 dB

### MUL-1310TX-1000-X

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