



1310nm Direct Modulated Optical Transmitter

Key Features

- » Transmits NTSC, PAL, ATSC, and related digital information for CATV and/or telephony applications
- » Available in 6, 8, 10, 12.5, 14.5 and 15dBm output power
- » High linearity, optically isolated, distributed AM feedback DFB laser
- » 47-1003MHz RF input bandwidth
- » Front panel RF test point (-20dB)
- » Microprocessor-controlled diagnostics, front panel LCD display and controls
- » Automatic Gain Control (AGC) and Manual Gain Control (MGC) override
- » Integrated SNMP network interface
- » Dual hot-pluggable redundant power supplies



Description

Multicom's Direct Modulated MUL-1310TX Transmitters deliver high performance signal transmission of NTSC, PAL, ATSC, QAM, and related digital information for CATV and/or telephony applications. Based upon custom high-linearity optically isolated DFB (Distributed Feedback) lasers, the built-in control circuits provide an exceptionally low noise and inter-modulation characteristics.

The units are packaged in slim 1.75-inch high (1RU), 19-inch aluminum rack-mounted enclosures. Each unit includes dual redundant self-contained power supplies with 110-250VAC inputs.

P/N	Output Power	P/N	Output Power
MUL-1310TX-V-1-06	6 dBm	MUL-1310TX-V-1-12.5	12.5 dBm
MUL-1310TX-V-1-08	8 dBm	MUL-1310TX-V-1-14.5	14.5 dBm
MUL-1310TX-V-1-10	10 dBm	MUL-1310TX-V-1-15	15 dBm

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Product Specifications

Description

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Technical Specifications

	Specifications	Values	Notes	
General	Operating temperature	0 - 45°C	32 - 113°F	
	Storage temperature	-20 - 65°C	-4 - 150°F	
	Operating relative humidity (%)	95	Max, Non-condensing	
	Power Supply (VAC)	110 - 250	50Hz/60Hz	
	Power consumption (W)	30	Typical	
	Size (L x W x H)	19" x 15" x 1.75" (1RU)	483 x 380 x 44 mm	
	Weight	8 Lb	3.6 Kg	
	Interface port 1	RS232	Network parameter config.	
	Interface port 2	RJ45	SNMP, IEEE802.3, 10BaseT	
	Power supplies	2	Hot pluggable, redundant	
Optical	Wavelength (nm)	1310	±20	
	Output power (dBm)	6, 8, 10, 12.5, 14.5, 15	See below for P/Ns	
	Optical connector	SC/APC	Alternative options available	
	Laser Type	DFB - ORTEL		
	Optical modulation mode	Direct optical intensity modulation		
RF	Bandwidth (MHz)	47 - 1003		
	Input level (dBmV)	12 - 28		
	Flatness (dB)	±0.75		
	Return loss (dB)	≥16 (47 - 550MHz), ≥14 (550 - 750/862/1003MHz)		
	Connector (Main input)	F type	75Ω impedance	
	C/CSO (dB)	≥60	25 Km optical fiber 0dB received	
	C/CTB (dB)	≥65		
	C/N (dB)	≥51		
	AGC control range (dB)	±5		
	MGC control range (dB)	0 - 10		
P/N		Output Power	P/N	Output Power
MUL-1310TX-V-1-06		6 dBm	MUL-1310TX-V-1-12.5	12.5 dBm
MUL-1310TX-V-1-08		8 dBm	MUL-1310TX-V-1-14.5	14.5 dBm
MUL-1310TX-V-1-10		10 dBm	MUL-1310TX-V-1-15	15 dBm

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