



1550nm Externally Modulated Optical Transmitter

Key Features

- » Transmits NTSC, PAL, ATSC, and related digital information for CATV and/or telephony applications
- » Available in 2 by 7dBm and 2 by 10dBm 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 Externally Modulated MUL-1550TX 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 with external modulation, 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
MUL-1550TXEM-V-2-07	2 outputs @ 7 dBm
MUL-1550TXEM-V-2-10	2 outputs @ 10 dBm

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Product Specifications

Technical Specifications

	Specifications	Values	Notes
General	Operating temperature	-5 - 45°C	23- 113°F
	Storage temperature	-30 - 70°C	-22 - 158°F
	Operating relative humidity (%)	95	Max, Non-condensing
	Power Supply - VAC	90 - 265	
	Power Supply - VDC	36 - 72	
	Power consumption (W)	≤60	
	Size (L x W x H)	19" x 17.9" x 1.75" (1RU)	483 x 455 x 44 mm
	Weight	12.1 Lb	5.5 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)	1545 - 1560	
	Output power (dBm)	2 outputs @ 7, 2 outputs @ 10	Depending on model
	Optical connector	SC/APC	Alternative options available
	Laser Type	DFB - ORTEL	
	Optical modulation mode	Externally modulated	
	Side-mode suppression ratio (dB)	>30	
	Relative intensity noise (dB/Hz)	≤160	
	Wavelength adjustment range (GHz)	±50	
	SBS threshold value (dBm)	+13 - +19	Continuously adjustable
	Laser linewidth (MHz)	0.3	
RF	Bandwidth (MHz)	47 - 1003	
	Rated input level (dBmV)	20	
	Input level range (dBmV)	18 - 36	AGC mode, modulating signal
	Flatness (dB)	±0.75	
	Return loss (dB)	>16	
	Connector (Main input)	F type	75Ω impedance
	CSO: Tx/Rx & link1, link 2, link 3 (dB)	64, 63, 62	CENELEC42
	CTB (dB)	65	
	CNR: Tx/Rx, link 1, link 2, link 3 (dB)	55.5, 55, 53, 50.5	
	AGC control range (dB)	+3 to -3	
	MGC control range (dB)	0 - 15	
	P/N	Output Power	
	MUL-1550TXEM-V-2-07	2 outputs @ 7 dBm	
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