



# 1310nm Intelligent Direct Modulated Return Path Optical Transmitter

## Product Specifications

### Description

The MUL-1310TX-RTN-V-1-X Intelligent Direct Modulated Return Path Optical Transmitter is mainly used in 1310nm optical fiber transmission systems. It uses advanced intelligent electronic predistortion compensation technology.

This unique transmitter is an important component to build a CATV-HFC network. It is used to transmit on the return path back to the headend from remote installations, providing a high quality low cost transmitter solution for CATV.

MUL-1310TX-RTN-V-1-X uses a DFB coaxial laser and the optical output power is available in 6, 7.7 and 9dBm.



### Technical Specifications

Item	Unit	Technical Parameters		
Optical output power	dBm	6	7.7	9
Optical circuit loss	dB	7	9	10
Optical wavelength	nm	1310 ± 20		
Laser type		DFB coaxial laser		
Optical modulation mode		Direct optical intensity modulation		
Optical connector type		FC/APC or SC/APC		
Frequency range	MHz	5 - 200		
RF input level	dB $\mu$ V	80 - 90		
Flatness in band	dB	± 0.75		
RF input impedance	$\Omega$	75		
Input return loss	dB	≥ 16		
AGC control range	dB	± 5		
MGC control range	dB	0 - 10		
Power supply voltage	V	AC 110V - 250V (50/60Hz) or -48VDC		
Consumption	W	30		
Operating temperature	°C	0 - +45 (+32 - +113°F)		
Storage temperature	°C	-20 - +65 (-4 - +150°F)		
Relative humidity	%	Max 95% no condensation		
Dimensions (L x W x H)	mm	483 x 380 x 44; (19in x 15in x 1.75in)		

**MUL-1310TX-RTN-V-1-X (-48V)**

Optional  
Output Power (dBm): 6, 7.7, 9  
Output Port(s)  
Transmitting Wavelength (nm) - 1310, 1550

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