

Description

The Netceed MUL-1310TX-V-1-X Intelligent Direct Modulated Optical Transmitter is mainly used in 1310nm optical fiber transmission systems. It uses an ORTEL DFB laser with an optical output power of 7.7, 10, 12, 14 or 14.9 dBm, and advanced intelligent electronic predistortion compensation technology.

An essential component in building a CATV-HFC network, it is mainly used to transmit analog video, digital television signal, telephone voice signal, and data (or compressed data) signal. This Netceed product provides a high quality low cost transmitter solution for a 1310nm optical fiber CATV system.



Key Features

- High linearity, optically isolated, distributed AM feedback ORTEL DFB laser
- Transmits NTSC, PAL, ATSC, and related digital information for CATV and/or telephony applications
- Available in 7.7, 10, 12, 14 and 14.9 dBm output power
- 47-1003MHz RF input bandwidth
- Front panel RF test point
- 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

Part Number: MUL-1310TX-V-1-X

└─ Output Power (dBm) - 7.7, 10, 12, 14, 14.9

1310nm INTELLIGENT DIRECT MODULATED OPTICAL TRANSMITTER

Specifications

Item	Technical Parameters
Optical output power (dBm)	7.7, 10, 12, 14, 14.9
Optical wavelength (nm)	1310 ±20
Laser type	ORTEL DFB laser
Optical modulation mode	Direct optical intensity modulation
Optical connector type	SC/APC
Frequency range (MHz)	47-750 / 862 / 1003 (depending on selected channel load)
RF input level (dBμV)	72 - 88 (+12 to +28dBmV)
Flatness in band (dB)	±0.75
RF input impedance (Ohm)	75
Input return loss (dB)	≥16 (47 - 550MHz); ≥14 (550 - 1003MHz)
C/CSO (dB)	≥60
C/CTB (dB)	≥65
C/N (dB)	≥51
AGC control range (dB)	±5
MGC control range (dB)	0 - 20
Power supply (V)	AC 110V - 250V (50/60Hz) (redundant power)
Consumption (W)	30
Operating temperature	0 - +45°C (+32 - +113°F)
Storage temperature	-20 - +65°C (-4 - +150°F)
Relative humidity	Max 95% no condensation
Dimensions (L x W x H)	483 x 380 x 44mm, (19" x 15" x 1.75")

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