

1550nm Direct-Modulated Optical Transmitter



Description

Montclair’s 1550nm direct modulated AGC optical transmitter offers a cost-effective solution delivering balanced high output power performance for your analog & digital CATV networks.

The 1550nm DM transmitter is based on high linear distributed feedback and thermoelectric DFB laser designed for transmission of multiple channel TV signals. Highly stable and reliable optical power output circuit and thermoelectric intercooled temperature control unit guarantees optimal long-life performance.

Features

- ⌋ 1550nm DFB laser
- ⌋ Analog & Digital transmission PAL & NTSC
- ⌋ Automatic Gain & Manual Gain Control (AGC & MGC)
- ⌋ Laser thermoelectric cooled temperature control circuit
- ⌋ High CSO & CTB performance
- ⌋ LCD front panel display
- ⌋ Flexible monitoring interface for RJ45, RS232, and SNMP
- ⌋ 1RU 19” rack-mount chassis

Applications

- ⌋ CATV networks
- ⌋ FTTx PON networks

Product Reliability & Assurance

Backed by over 20 years of engineering and manufacturing experience each amplifier is strictly qualified and adhered to rigorous standards to guarantee you a maintenance-free and optimal performance network. A two year limited warranty is offered with each amplifier.

Product Support

Our depth of technical support from an experienced staff is provided at every level to ensure each product configuration and characteristic is specific to your application. Continuous support throughout!



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Specifications

Optical specifications

Parameters	
Laser type	1550nm AGC
Optical wavelength	1550nm±10nm
Noise level	≤ -160dB/Hz
Optical output path	1 or 2 ports balanced output power
Connector type options	FC/APC & SC/APC

RF specifications

Parameters	
RF bandwidth	45 - 860MHz (1000 MHz optional)
RF input impedance	75Ω
RF interface type	F type female
Band roughness	±0.75dB
CNR	53 dB
CTB	-65 dB
CSO @ 60 CH.PAL-D	≤ -63 dB

Environmental specifications

Parameters	
Power supply	110 ~ 254 VAC
Power dissipation	24 W
Working temperature	0 ~ +50 °C
Storage temperature	-20 ~ +60 °C
Humidity	85% Max

Physical specifications

1RU rack-mount chassis dimensions		
W x D x H	mm	inches
1RU rack-mount chassis		
Power supply: Single -48V DC	483 x 385 x 44	19 x 15 x 1.75

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Ordering information

M - OTX - DM - 5 5 - **1** - R - **2** - **3**

1. Total output power (mw):		2. Power supply:		3. Output adapter ports:	
1 output port:		A	-48V DC single	AFC	FC/APC
1x2	2mw total power	AA	-48V DC dual	ASC	SC/APC
1x3	3mw total power	B	220V AC single		
1x4	4mw total power	BB	220V AC dual		
2 output ports:		C	110V AC single		
2x1	5mw total power	CC	110V AC dual		
2x2	6mw total power				
2x3	7mw total power				
2x4	8mw total power				
2x5	9mw total power				
2x6	10mw total power				

Note:
Transmitters in 1RU dimensions for 19" rack