





CATV 1550nm Directly Modulated Optical Transmitter (DMTX)

#### Introduction

The C-COR range of 19" rack mountable 1550nm Optical Transmission products enable deployment of cost-effective video/data transmission solutions over CATV and PON networks. Sourced from C-COR's Taiwan manufacturing facilities, the products provide a reliable source of optical transmission for RF Video and data applications.

The C-COR range of 1550nm Directly Modulated Optical Transmitter (DMTX) devices contain high-quality, highly linear DFB laser with built in pre-distortion compensation, Automatic Gain Control (AGC), Automatic Power Control (APC) and Automatic Temperature Control (ATC). These 1550nm Optical Transmitters can be used, together with C-COR's EDFA and EYDFA products, for cost advantage in:

- CATV transmission systems, and;
- PON networks with RF video overlay.

The C-COR 1550nm Optical Transmitters provide superior CNR, CTB and CSO performance and adjustable Optical Modulation Index (OMI) allows individual network performance to be optimized.

Hot-swappable dual AC/DC power supply options for redundant powering protection and field replaceable fan design provides for higher reliability operation. The technology provides a versatile and reliable integrated solution for operators to scale their network growth according to needs.

This C-COR 1550nm Optical Transmitter range is widely used for multicontent, wide distribution FTTH system requirements and is suitable for RF signal distribution over fibre.

Management of the product is provided by front panel LCD display, SNMP, Web based and RJ45/RS232 Interfaces.



## **Features**

- 45 to 1,002 MHz bandwidth
- **Excellent CNR and distortion** performance
- Automatic/manual gain control
- Standard RJ45 interface, supporting SNMP and Web remote network management
- Dual AC or DC power supply with automatic backup switching and hot swap.



### **Australia Office**

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# **Dimensions and Weight**

Parameter	Value
Dimensions (Height x Width x Depth) (mm)	44x483x370
Weight (each) (kg)	4.1

## **Specifications**

Optical Parameter	Value
No. of Output Ports	1/2
Optical Connector	SC/APC / LC/APC
Operating Wavelength (nm) <sup>1</sup>	1528.77 to 1563.86
Output Power (dBm)	3 to 10
Laser Linewidth (MHz)	≤ 1.0
RIN (dB/Hz)	≤ -160
SMSR (dB)	50
XP (dB)	≥ 20
Optical Return Loss (dB)	≥ 50

Note:

1) ITU-Grid Optional;

Link Parameters	Value
No. of Test Channels	PAL-D / 59CH
CNR (dB)	≥ 51
CTB (dB)	≥ 65
CSO (dB)	≥ 60

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Due to ongoing product development, technical specifications are subject to change without notice



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RF Parameter	Value
RF Connector	F-Type Optional: Imperial / Metric
Operating Bandwidth (MHz)	45 to 1,002
RF Input Level (dBμV)	75 to 85
Flatness of TP (45~1,002 MHz) (dB)	-0.75 to +0.75
Return Loss (45-1,002 MHz) (dB)	≥16
Input Impedance (Ω)	75

General Parameters	Value
Operating Temperature (°C)	-5 to +65
Storage Temperature (°C)	-40 to +85
Operating Humidity (%)	5 to 95
AC PSU Voltage (VAC), (@ 50/60 Hz)	90 to 265
DC PSU Voltage (VDC)	-72 to -36
Power Consumption (W) (Dual PSU, 1+1 Standby)	≤ 30

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Contact your local sales representative for product availability in your area and for other interface and option requirements.