2.6 GHz DMOD Optical Transmitter

ROT1526 Series

- **Direct Mod 1550nm**
- **47MHz ~ 2605MHz Transmitter**
- **CATV + Satellite**
- **Analog + Digital**
- **Compact Design**
- **Manual Gain Control**
- **Low Power Consumption**
- **LED Status Indicators**
- **Remote IP Control & SNMP**

ACT ROT1526 series Direct Modulated 1550nm 2.6GHz forward transmitter offers a flexible and scalable optical transmission for high quality video and data in short and medium distance CATV and Satellite distribution networks. It is a cost effective, good performance optical transmitter which is designed with a low noise DFB laser with MGC control. The wide RF spectrum supports both CATV spectrum and Satellite IF spectrum up to 2.6GHz.

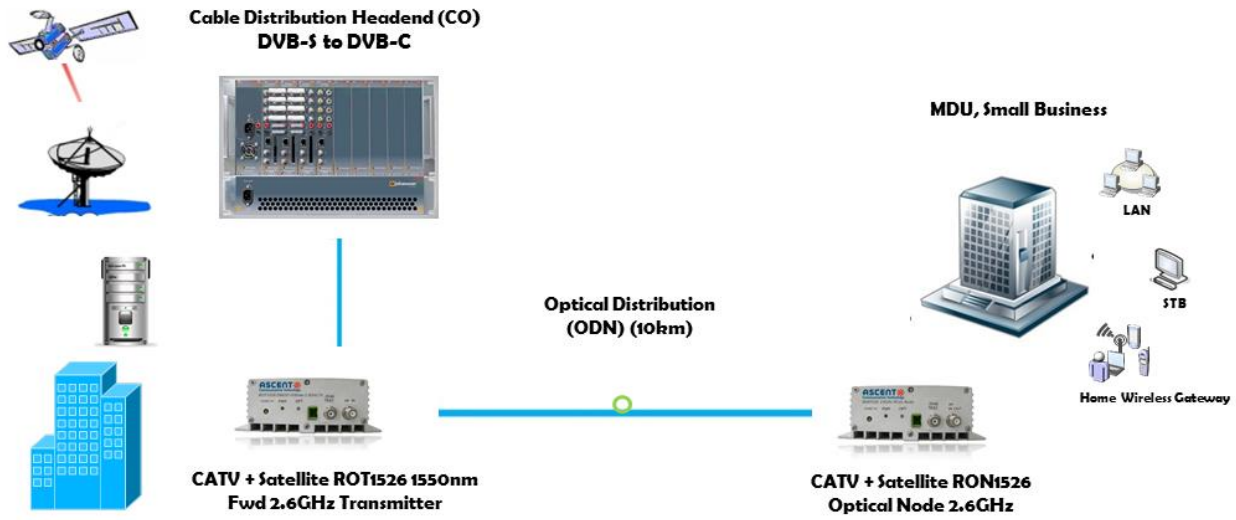
ROT1526 1550m transmitters are capable of delivering analog and digital video transmission up to 10km with intuitive LCD display to make operator's daily operation easier. Rolling out RON1526 DMOD TX makes it possible for cable/Satellite operators to protect their existing network investment and continue the deployment of DOCSIS-compliant cable modems for Internet and VoIP delivery, together with Video on Demand systems.

The optical output power level can be ordered at 3dBm, 6dBm, 7dBm with optional local IP monitoring port for remote management. Combined with ACT RON1526 optical RX, ROT1526 DMOD transmitter provides the most cost effective CATV, Satellite signal, IPTV and VOD solution for short, medium HFC and FTTX network.

Key Features

- Suitable for short, medium distance FTTB applications
- High performance and Cost Effective transmitter solution for short and medium distance MDUs
- 2.6GHz RF Spectrum (47□862MHz CATV, 950□2605MHz SAT-IF)
- Optimized models for analog and digital signal up to 10km
- Small form factor and low power consumption
- Optical manual gain control (MGC)
- Low noise DFB Laser
- Optional local RJ45 IP monitoring port to allow remote management
- Support SNMP and HTTP monitoring, management and control
- The compact and sturdy enclosure fits easily in wiring closets or network termination boxes.

Application Diagram



Specifications

ROT1526 DMOD 1550nm Direct-Modulated (DMOD) 2.6GHz Laser Transmitter

RF Specification	
RF Bandwidth	47 to 862 MHz and 950 to 2605 MHz
RF Flatness	±1 dB @ 47 to 862MHz; ±2.5 dB @ 950 to 2605MHz
RF Input Level	20dBmV
RF Input Return Loss	≥ 14 dB @ 47 to 862MHz; ≥ 10 dB @ 950 to 2605MHz
RF Input Impedance	75 Ω
RF Test Point	-20 dB ±
TV Channel Plan	60 PAL channels, 80 NTSC channels
Link Performance	
CNR	50dB
CTB	-60dBc
CSO	-60dBc
Optical Specifications	
Wavelength	1550±5nm
Optical Output Power	3dBm, 6dBm, 7dBm
Optical Connector	SC/APC or FC/APC
General Specifications	
Management Interface	RJ45 Web & SNMP
Operating Temp, °C	0 to 50
Storage Temp, °C	-40 to 85
Power Supply	100 to 265 VAC
Power Consumption W	≤ 5
Operating Relative Humidity, %	5 to 95
Dimensions (W x D x H)	210x159x50 mm
Weight, kg	0.93 kg
Ship Weight	1.5kg

Note: Measured in a typical system configuration for the nominated channel numbers and nominated fibre lengths for each model at 25 °C ambient temperature.

Ordering Information

ROT1500 Series Direct Mod 1550nm Optical Transmitter Ordering Information

ROT15	XX-	XX	X-	XX-	XX-	XX-	X

	RF Bandwidth
08	862MHz
10	1002MHz
26	2.6GHz

	Optical Output
3	3dBm
6	6dBm
7	7dBm

	Optical Connector
AS	SC/APC
AF	FC/APC

	EMS
0	No EMS
E	Local EMS RJ45

	Transmitter
15	1550nm Direct Mod

	Band Split
55	55/70 MHz
65	65/85 MHz

	Power Cord
01	Australia
02	China
03	Continental Europe
04	North America

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