

Titan TDT13 1310nm CATV Transmitter

The Titan TDT 1310 transmitter is a high quality, low cost, broadcast transmitter used to send RF analog and digital content over long distant optical trunk and HFC networks. This 1RU rack mount transmitter supports a 78 NTSC channel loading and 44 DOCSIS3/HDTV digital channels in a single low cost package. The DXT transmitter supports 8 - 14dBm optical output power, a wide AGC range, 47 to 1000MHz frequency response and SNMP remote management to allow it to be deployed in a wide variety of network topologies carrying both analog and digital content. If you are looking for a good performance low cost CATV transmitter, the Titan DXT transmitter is the right choice for you!



Features and Benefits

- 10dB AGC range to minimize installation effort and insure consistent long term performance
- Wide frequency range from 47 to 1000 MHz for current and future network applications
- Supports a 78 channel loading along with digital QAM channels, HDTV and DOCSIS3 support.
- Distortion pre-compensation allows high fidelity links over long distances for high video quality
- Status indicators, RF, optical power, laser modulation index and internal alarms
- Front panel display & controls with SNMP remote management for diagnostics & maintenance.
- Laser shut-down switch allows safe maintenance of the optical network and components.

Applications

- Traditional HFC deployments.
- Point to point CATV links
- Long distance video transport (up to 100Km)

Generic Specifications

General

Dimensions W x H x D	19" x 1.75" x 14.25" (1 RU Rack mount)
Weight	Approx 14lbs. (1.13kg)
Optical connectors	1 SC/APC on rear panel
RF Connectors	75Ohm, Female "F" connectors
Modulation	Directly modulated

Optical Performance

Wavelength	1310nm +/- 10nm
Output power	+8 to +14dBm (optional)
Optical outputs	1 port on rear panel
CSO	-63dB *
CTB	-70dB*
* (tested back to back with 79ch loading and 0dBm at receiver)	

RF Performance

RF Bandwidth	45MHz to 1.0GHz
RF input level	15dBmV to 25dBmV (with AGC)
Channel loading	7NTSC channels
Flatness	+/- 0.75dB
RF return loss	>16dB into 75Ohm
RF Monitor	-20dB (referenced to input power)

Electrical Requirements

AC power	90 - 265VAC, 50/60 Hz (Universal AC)
DC power (optional)	-36 to -60VDC (fuse for 2 Amps)
Power consumption	25 Watts typical

Environmental

Operating temp range	0 to +50C
Storage temp range	-40 to +80C
Humidity	5% to 85% (non condensing)

Management

Local management	Backlit LCD display , Status LED, control buttons, keyed laser shut-off & RF monitor on front panel
Remote management	SNMP LAN port on rear panel

Ordering Information

(Stand-alone, 1-RU, directly modulated, 1310nm CATV transmitter)

Titan TDT13 transmitter can be ordered and customized to your specific needs as follows:

TDT13- pp-ps-r

- pp = Output power per port (8, 10, 12, 14)
- ps = Power supply type (AC, DC)
- r = Redundant power supplies (None, R)

Mechanical Drawings

