

The *OmniLynx* **OTR-2500**

Two-way MMDS CPE Transceiver



The customer premises RF transceiver is an integrated design using single antenna for both transmit and receive.

This ultra-high performance transceiver is designed to interface with any industrial standard cable or wireless modems at the CPE site. The transceiver accepts upstream IF signal from the modem, upconverts, amplifies, and transmits the signal to the base station. On the downstream side, the transceiver receives the RF signal from the base station, downconverts it and delivers downstream IF signal to the modem.

The transceiver is fully connectorized for easy installation. The single antenna design provides cost-effective solution for both operators and subscribers.

Main Features:

- 25dBm power output.
- Low phase noise and high frequency stability.
- Integrated transceiver design.
- Single antenna design.
- 50 km operating range.
- Transmitter sleep mode.
- Low DC power consumption.
- 100% weather proof housing.

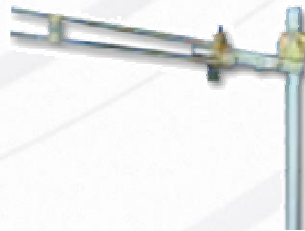
Antenna options



Corner reflector
12 dBi gain



Spot beam
15 dBi gain



Yagi antenna
17 dBi gain



Mesh antenna
18/21/24 dBi gain



OTR-2500

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Technical Specifications

<i>Downstream</i>	<i>MDS</i>	<i>WCS</i>
RF Input	2500 ~ 2686 MHz	2500 ~ 2686 MHz
IF Output	222 ~ 408 MHz	222 ~ 408 MHz
Gain	28 dB +/- 2dB	28 dB +/- 3dB
Gain Flatness	+/- 2 dB	+/- 2 dB
Noise Figure	4.0 dB typ.	4.5 dB typ.
Output 3rd Intercept	24 dBm	24 dBm
PCS Rejection	> 90 dB	> 90 dB
WCS Rejection	> 70 dB	N/A
Image Rejection	> 90 dB	> 90 dB
IF Rejection	> 85 dB	> 85 dB
In-band Spurious	< -80 dBm	< -70 dBm

<i>Upstream</i>	<i>MDS</i>	<i>WCS</i>
IF Input	14.375 ~ 26.375 MHz	28.0625 ~ 48.0625 MHz
RF Output	2150 ~ 2162 MHz	2305 ~ 2325 MHz
Gain	24 dB +/- 2dB	24 dB +/- 3dB
Gain Flatness	+/- 1.5 dB	+/- 2dB
Output 1-dB Compression Point	+25 dBm	+24 dBm
Output Transmit Noise	-122 dBm/Hz	-122 dBm/Hz
Output Spurious (@+22 dBm Tx Output)	<-60 dBc (both in-band and out of band)	<-50 dBc (both in-band and out of band)

<i>General</i>	<i>MDS</i>	<i>WCS</i>
Phase Noise (Both LO's)	-92 dBc/Hz @ 10 KHz -99 dBc/Hz @ 100 KHz	-92 dBc/Hz @ 10 KHz -99 dBc/Hz @ 100 KHz
LO Leakage at RF/IF ports	-50 dBm Max.	-50 dBm Max.
LO Frequency Stability (-30° C ~ +60° C)	+/- 10 KHz	+/- 6.5 KHz
IF Connector (Rx out / Tx in)	F-Type, 75 Ohm	F-Type, 75 Ohm
RF Connector (Rx in / Tx out)	N-Type, 50 Ohm	N-Type, 50 Ohm
Input / Output VSWR	2.5 : 1	2.5 : 1
DC Consumption (15-24Vdc)	<6 Watt	<7 Watt
Operating Temp.	-30° C ~ +60° C	-30° C ~ +60° C
Physical Dimension	150mm x 150mm x 40mm	150mm x 150mm x 40mm

Note: Typical value @ 25°C, unless otherwise specified
Technical specifications are subject to change without prior notice

Accessories option:

Power supply: 110V/220V adapter & inserter
Attenuator box: 20 dB IF bidirectional attenuator



Montreal - Quebec - Canada
Tel: +1.450.686.0033
Fax: +1.450.688.7709
E-mail: info@omnilynxtech.com
Web site: www.omnilynxtech.com

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