

TRX-200 In-band MMDS Transceiver

Overview

TRX-200 is TSI's new generation transceiver for 2-way wireless broadband Internet application at 2572-2690 MHz band for down stream. It accepts an IF signal of 12~42 MHz from cable modem, up converts the signal to 2500~2530MHz and transmits it back to the MMDS headend site.

With its built-in automatic on/off switch, TRX-200 will enter sleep mode to eliminate broadband noise when there is no data packet transmission. Without exception, TRX-200 embodies the long term stability and reliability common to all TSI products.

Together with the integrated downconverter and upconverter, TRX-200 provides the best cost / performance solution for your 2-way MMDS operation.

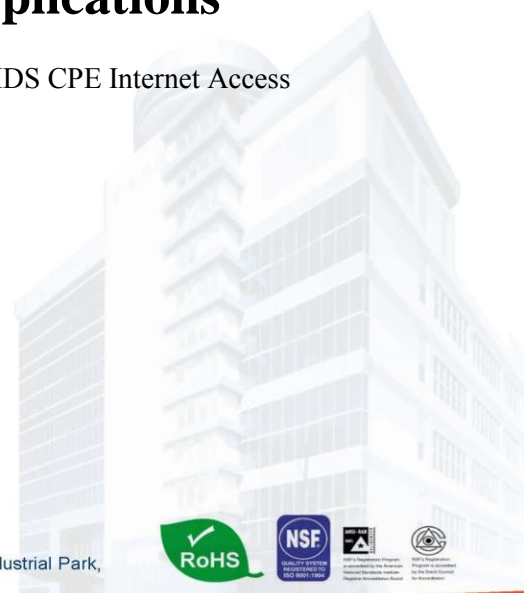
Key Features

- QPSK, 16 QAM Transimission Compatible
- 256QAM Digital-Ready
- Automatic On/Off switch
- Up to 50km cell coverage
- Integrated dipole
- Easy installation with mesh antenna
- Low phase noise
- High frequency stability
- Low power consumption
- Meets FCC spectral mask requirement
- RoHS compliant



Applications

- MMDS CPE Internet Access



TranSystem. Inc.

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Specification

Category	Parameter	Description
Downstream	RF frequency	2572 ~ 2690 MHz
	IF frequency	294 ~ 336 MHz
	Gain	30 ± 2dB 0.3 dB/6 MHz
	Noise Figure	4.0 dB typ / 5.5 dB max
	Output 3 rd Intercept	24 dBm
	PCS Rejection	> 90dB
	2.3G WCS Rejection	> 90dB
	Image Rejection (add gain)	> 80dB
	IF Rejection	> 80dB
	In-band Spurious	< -80dBm
Upstream	IF Input	12 ~ 42 MHz
	RF Output	2500 ~ 2530 MHz
	Gain	24 ± 2 dB
	Output 1-dB Compression Point	+25 dBm typical
	Output Transmit Noise	-120 dBm/Hz typical -118 dBm/Hz max
	Output Spurious @ +22 dBm Tx output	-60 dBc (in-band and out-band)
	Output Power Blanking Threshold	-45 dBm @ IF Input
	TX Switch Latency	< 1.2 micro second
LO	Phase Noise	-84 dBc/Hz @ 1KHz -88 dBc/Hz @ 10KHz -96 dBc/Hz @ 100KHz
	LO Leakage at RF / IF ports	-50 dBm Max.
	LO Frequency	Downstream: 2278 MHz Upstream: 2488 MHz
	LO Stability	±10 KHz over temp.
Interface	RF Impedance	50 ohm
	RF Connector	Integrated Dipole or N-type Female
	IF Impedance	75 ohm
	IF Connector	F-type Female
	Input / Output VSWR	2.5 : 1
Power Supply	Voltage	+15 to +24 VDC
	Power Consumption	8 Watt max.
Environment	Temperature	-30°C ~ + 60°C
	Humidity	100% waterproof
Physical Dimension	Dimension	163 x 150 x 88 mm
Accessories Options	Antenna	Corner Reflector (12dBi) Spotbeam (15 dBi) Viper (17 dBi)
	Power Supply	Full Range Adapter & Inserter
	Ordering Information	TRX-200 TRX-200N
		With integrated dipole With N-type connector

Typical value @ 25°C, unless otherwise specified.
 Specifications are subject to change without prior notice.
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