

TRX-220 In-band MMDS Transceiver

Overview

TRX-220 transceiver for 2-way wireless broadband Internet application operates at the 2500-2602 MHz band for downstream transmission. It accepts an IF signal of 23~65 MHz from cable modem, upconverts the signal to 2644~2686MHz and transmits it back to the MMDS headend site.

With its built-in automatic on/off switch, TRX-220 will enter sleep mode to eliminate broadband noise when there is no data packet transmission. Without exception, TRX-220 embodies the long term stability and reliability common to all TSI products.

With the integrated downconverter and upconverter, TRX-220 provides the best cost / performance solution for your 2-way MMDS operation.

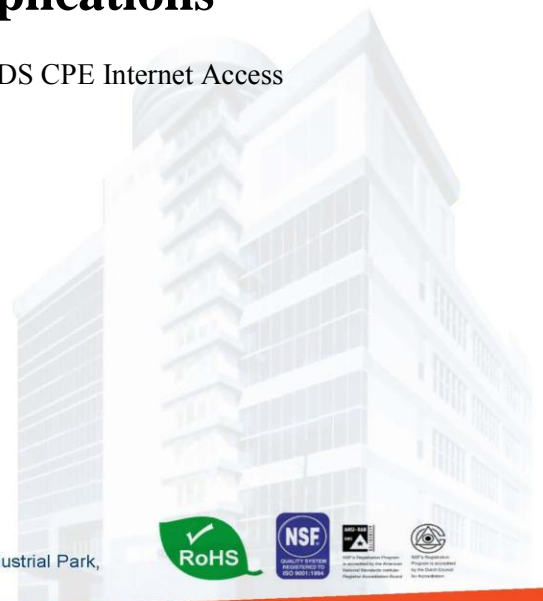
Key Features

- QPSK, 16 QAM Transmission Compatible
- 256QAM Reception Compatible
- 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



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Specification

Category	Parameter	Description
Downstream	RF frequency	2500 ~ 2602 MHz
	IF frequency	222 ~ 324 MHz
	Gain	18 ± 2dB 0.3 dB/6 MHz
	Noise Figure	7.5 dB typ / 9.0 dB max.
	Output 3 rd Intercept	24 dBm
	PCS Rejection	> 90dB
	2.3G WCS Rejection	> 70dB
	Image Rejection (add gain)	> 90dB
	IF Rejection	> 85dB
	In-band Spurious	< -80dBm
Upstream	IF Input	23 ~ 65 MHz
	RF Output	2644 ~ 2686 MHz
	Gain	24 ± 3 dB
	Output 1-dB Compression Point	+24 dBm typical
	Output Transmit Noise	-122 dBm/Hz typical
	Output Spurious @+22 dBm Tx output	-60 dBc (in-band and out-band)
	Output Power Blanking Threshold	-40 dBm @ IF Input
LO	TX Switch Latency	≤ 1.2 micro second
	Phase Noise	-85 dBc/Hz @ 1KHz -93 dBc/Hz @ 10KHz -98 dBc/Hz @ 100KHz
	LO Leakage at RF / IF ports	-50 dBm Max.
	LO Frequency	2278 MHz
Interface	LO Stability	± 10 KHz over temp.
	RF Impedance	50 ohm
	RF Connector	Integrated Dipole
	IF Impedance	75 ohm
	IF Connector	F-type Female
Power Supply	Input / Output VSWR	2.5 : 1
	Voltage	+15 to +24 VDC
Environment	Power Consumption	7 Watt max.
	Temperature	-30°C ~ +60°C
Physical Dimension	Humidity	100% waterproof
	Dimension	163 x 150 x 88 mm
Accessories Options	Antenna	Corner Reflector (12dBi) Spotbeam (15 dBi)
	Power Supply	Full Range Adapter & Inserter
Ordering Information	TRX-200	With integrated dipole
	TRX-200N	With N-type connector

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