

PLC-200 2.5 GHz Integrated CPE Transmitter

Overview

PLC-200 is TSI's latest offering for 2-way wireless broadband Internet application. It accepts an IF signal of 12~42MHz from cable modem, upconverts the signal to 2500~2530MHz and transmits it back to the MMDS headend site.

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

Together with TSI's high quality downconverters, PLC-200 provides the best cost / performance solution for your 2-way MMDS operation.



Key Features

- QPSK, 16 QAM Transmission Compatible
- Automatic On/Off switch
- Up to 50km cell coverage
- Integrated dipole, saves a passive dipole
- Easy installation with various antenna
- Low phase noise
- High frequency stability
- Low power consumption
- Meets FCC spectral mask requirement
- Lightweight, saves shipping costs
- RoHS compliant

Application

- MMDS CPE Internet Access



TranSystem. Inc.

Tel: + 886-3-578-0393 Fax: + 886-3-578-4111
Inquiries: sales@transystem.com.tw

Address: No. 1-2, Li-Hsin Rd I, Science-Based Industrial Park,
Hsinchu, Taiwan, R.O.C.
Web site: <http://www.transystem.com.tw>



Specification

Category	Parameter	Description
Frequency	Input	12 ~ 42 MHz
	Output	2500 ~ 2530 MHz
	Stability	±10KHz
Transmitting Gain	Range	24±3 dB
	Flatness	±2 dB (over full band)
Transmitting Noise	Noise	-116dBm/Hz max @2500 ~ 2530 MHz
	Spurious	<-55 dBc @Tx power +22dBm
Local Oscillator	LO Frequency	1 st LO: 854 MHz 2 nd LO: 1634 MHz
	Phase Noise	-85 dBc/Hz@1KHz -90 dBc/Hz@10KHz -95 dBc/Hz@100KHz
	LO Leakage	-50 dBm max
Power Output	@ 1dB compression	+24 dBm typ.
Return Loss	Input / Output	6.0 dB min.
On / Off Switch	Latency	< 1.2 micro second
	Threshold	-40 dBm @ IF input port
Input Interface	Impedance	75 ohm
	Connector	F-type Female
Power Supply	Voltage	+15 to +24 VDC
	Current	350 mA max (@15VDC)
Environment	Temperature	-30°C ~ +60°C
	Humidity	100% waterproof
Physical Dimension	Dimension	294 x 55 x 31 mm
Accessories Options	Antenna	Corner Reflector (12dBi) Spotbeam (15dBi) Viper (17dBi) Parabolic Mesh (18-25dBi)
	Power Supply	Full Range Adapter & Inserter

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