

### Description

The PW-1100 series WiMAX Radio Development Platform (RDP) is a fully capable, dual antenna, RF to baseband converter unit, featuring an OBSAI RP3-01 compliant fiber interface. The RDP's unique capabilities and rich feature set make it well suited to support a number of WiMAX initiatives:

- Product Development
- Technology Evaluation
- Channel Monitoring
- System Evaluation / Field Trials
- Test and Debug Applications

The PW-1100 RDP operates in the 3500 to 3550 MHz frequency band with a TDD access mode. The RDP has been designed with a flexible architecture allowing for other product versions within the 3400 to 3600 MHz frequency range, as well as FDD product versions, to be made available quickly. The PW-1100 series product family also includes the PW-1101, which operates in the 2546 to 2596 MHz frequency band, the PW-1102, which operates in the 2300 to 2350 MHz frequency band and the PW1103, which operates in the 3400 to 3450 MHz frequency band.

### Features

The PW-1100 series RDP offers many features that make it a valuable tool for use in WiMAX development and technology evaluation initiatives. The RDP can be controlled by either the OBSAI RP3-01 3072Mbps fiber optic link, as a "Remote RF Block", or alternatively by the Ethernet connection and PC based Graphical User Interface (GUI). The ability to directly control the RDP via a GUI, along with its integral signal playback and capture RAM, make the product very well suited to test scenarios where a fiber interface may not be available.

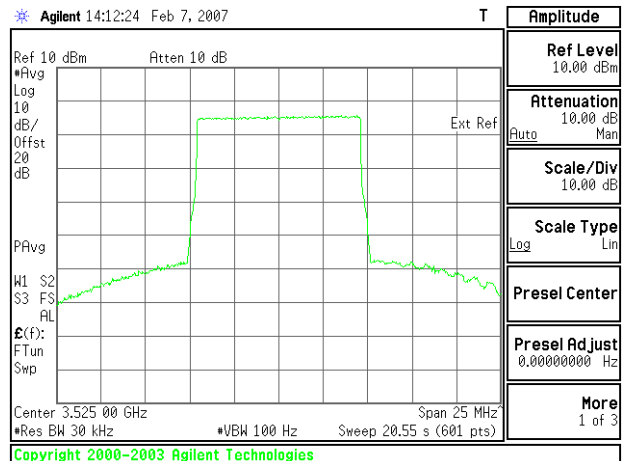
- IEEE 802.16d OFDM and 802.16e OFDMA compliant
- 2.5, 3.5, 5, 7 or 10 MHz Channel BW
- Two Receive/Transmit Channels
- Integral playback and capture RAM for Tx signal generation and Rx signal snapshot recording
- Optional IF input/outputs



**PW-1100 Radio Development Platform**

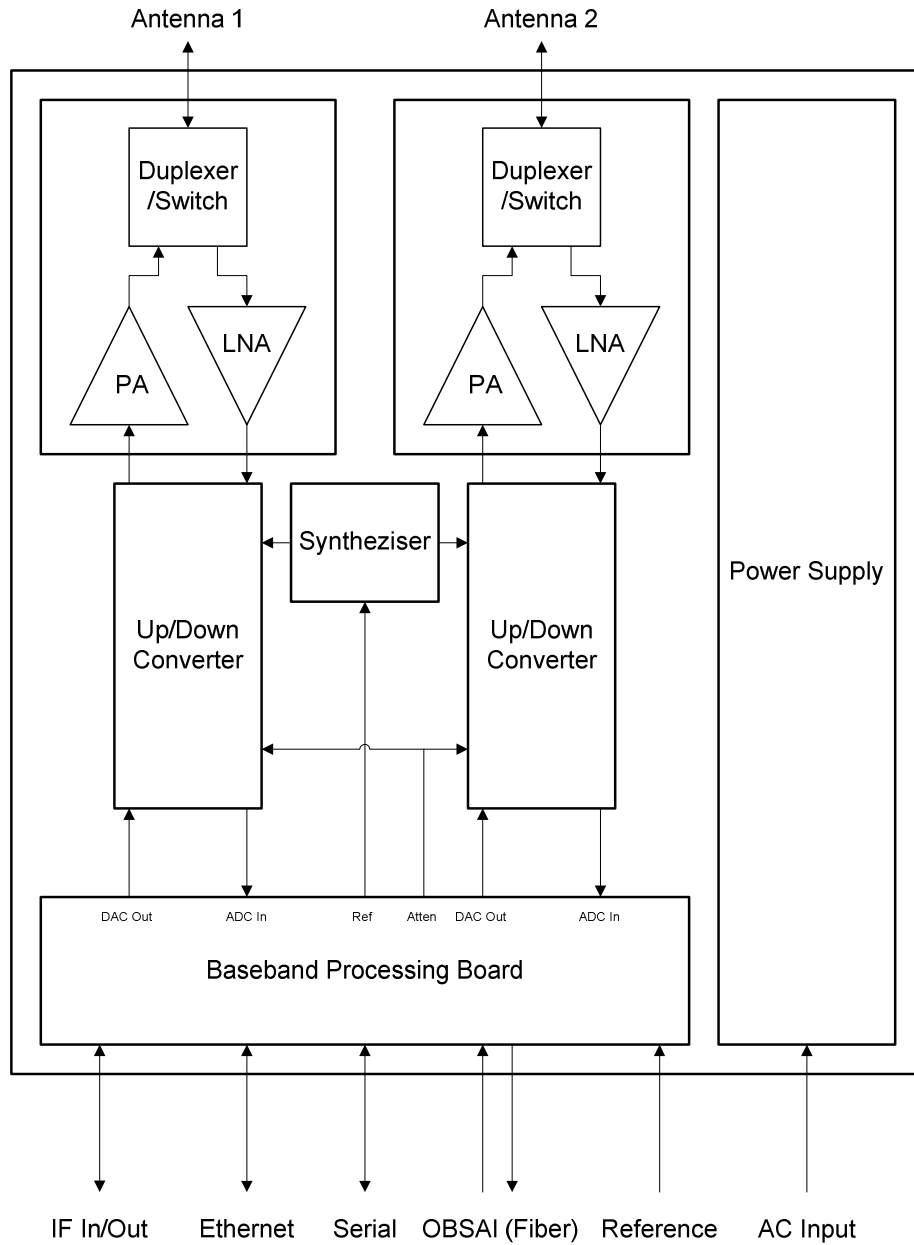
### Typical Performance

Transmit Output Power: +20dBm  
 Tx Error Vector Magnitude: 1.5% (-36.5dBc RCE)  
 Tx Adjacent Channel Power: -50dBc  
 Receiver Noise Figure: 7dB  
 Rx Adjacent Channel Selectivity: -40dBc  
 Rx Alternate Channel Selectivity: -54dBc  
 Power: 100-240VAC 50/60Hz (125W)  
 Temperature Range: +15 to +35C  
 Size: 2U 19" Rack (3.5"x19"x21")



### Typical WiMAX Transmit Signal

Tx Output Power: +20dBm  
 Channel Bandwidth: 10MHz



**PW-1100 Radio Development Platform Block Diagram**

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