ADRV9375-W/PCBZ Evaluation Board

Overview

The ADRV9375-W/PCBZ radio card is designed to showcase the AD9375, the first wideband RF transceiver with integrated DPD targeting 3G/4G small cell and massive MIMO. The radio card provides a single 2x2 transceiver platform for device evaluation and rapid prototyping of radio solutions. All peripherals necessary for the radio card to operate including a high efficiency switcher only power supply solution, and a high performance clocking solution are populated on the board. In addition, a 3rd party PA evaluation card is included in the package for DPD evaluation.

Features and Benefits

- Complete Radio Card platform containing AD9375 DPD with high efficiency RF Power Amplifier
- Wideband tuning range matched for 300MHz – 6GHz
- Complete with high efficiency power supply solution and clocking solution for AD9375
- FMC Connector to Xilinx ZC706 motherboard
- Powered from single FMC connector
- Includes schematics, layout, BIOS, HDL, drivers and application software

Package Contents

- ADRV9375-N/PCBZ radio card
- SKY66297 power amplifier (PA) evaluation card
- Two 8GB SD cards
  - One for Linux driver and IIO Scope (AD-FMC-SDCARD)
  - One for Windows-based GUI (ADRV9371-SDCARD)

Additional components to be ordered separately:

- Xilinx ZC706 motherboard
- 20dB Directional Coupler, e.g. Narda 4243-20
- 30 dB attenuator, e.g. API-Weinschel 33-30-34
- 6 dB attenuator, e.g. API-Inmet 18B10W-06
- 30.720MHz Reference Clock CPRO33-30.720

Development Kit

Richardson RFPD has released a development kit that combines the DE705 with ADI ADRV9375 transceiver evaluation board and ADI EVAL-TPG-ZYNQ3 SoC board. The kit includes the boards, documentation, and most accessories. For more information please see ADI-DPD-DEVKIT.