# ADRV9375 ADRV9375-N/PCBZ and ADRV9371-W/PCBZ Evaluation Board



## Features

- Complete Radio Card platform containing AD9375 DPD with high efficiency PA
- Narrow band and wide band tuning range
  - ADRV9375-N/PCBZ matched for 1.8GHz – 2.6GHz
  - ADRV9375-W/PCBZ 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, BOM, HDL, drivers and application software

## Applicable Parts

- AD9375
- ADP5054
- AD9528

## Package Contents

- ADRV9375-N/PCBZ or ADRV9375-W/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 need to be ordered separately:
  - Xilinx ZC706 motherboard
  - Coupler, e.g. Narda 4243-20 or Splitter, e.g. Mini-Circuits ZN3PD-622W-S+
  - 30 dB attenuator, e.g. Mini-Circuits BW-S30W20+
  - 6 dB attenuator, e.g. Mini-Circuits VAT-10W2+

## Product Details

The ADRV9375-N/PCBZ and ADRV9375-W/PCBZ are radio cards 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.

The ADRV9375-N/PCBZ has the same matching network as the ADRV9371-N/PCBZ. The ADRV9375-W/PCBZ has the same matching network as the ADRV9371-W/PCBZ. For more information, please click here.

## Getting Started

The evaluation system user guide is available for download and describes how to get up and running. The evaluation kit offers several software drivers for evaluation and rapid prototyping as well as design tool options to aid in simulation and filter design. Also, watch the video in the documentation section below to see one of our applications engineers step through the setup process.

# Documentation

### SDR Integrated Transceiver Design Resources

This site contains the device documentation packages for the SDR Integrated Transceivers including user guides, IBIS models, and PCB files.

### AD9371/AD9375 Prototyping Platform User Guide WIKI

The ADRV9371-W/PRBZ, ADRV9371-N/PCBZ, ADRV9375-N/PCBZ are FMC radio cards for the AD9371 and AD9375, high-performance integrated wideband RF transceivers.

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*Demo Video of AD9375 DPD Evaluation Platform*

Shown is the evaluation platform for AD9375, the industry-first wideband transceiver with integrated digital...

## Software

**AD9371/AD9375 Software (Last Updated 11/2017)**

The Evaluation kit offers several software drivers for evaluation and rapid prototyping as well as design tool options to aid in simulation and filter design.

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## Related Hardware

### Development Platform

**EVAL-TPG-ZYNQ3**

Xilinx Zynq®-7000 All Programmable SoC ZC706 Evaluation Kit

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| Model | Description | RoHS |
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| ADRV9375-N/PCBZ<br>Production | Narrow tuning range 1.8GHz-2.6GHz with integrated DPD | Yes |
| ADRV9375-W/PCBZ<br>Production | Wide tuning range 300MHz-6GHz with integrated DPD | Yes |
| EVAL-TPG-ZYNQ3<br>Production | Evaluation Board | Yes |