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EVAL-ADF7242-PMDZ

2.4GHz Wireless Transceiver PMOD Evaluation Board

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Features

- Low Cost, ADF7242 single chip 2.4GHz RF Transceiver IC
- Frequency range (global ISM band): 2400 MHz to 2483.5 MHz
- PMOD Compatible Expansion Ports with SPI Interface
- IEEE 802.15.4 compliant RF transceiver
- Transmission Range: Up to 100m at 250 kbps, Output Power = +3 dBm
- Low Power Consumption: 19 mA at Rx Mode, 21.5 mA at Tx Mode, 1.8 mA at Idle Mode
- Supports Antenna and Polarization Diversity
- Onboard Chip Antennas
- Small Form Factor: 2.35" x 0.8"

Applicable Parts

- [ADF7242](#)

Package Contents

- EVAL-ADF7242-PMDZ Evaluation Board

Product Details

The low cost and small profile EVAL-ADF7242-PMDZ is a 2.4 GHz, 802.15.4 wireless transceiver board that supports RF to FPGA or processor applications system that utilize PMOD-compatible expansion ports configurable for SPI communication (packet mode). For applications that require data streaming, a synchronous bidirectional serial port (SPORT) interface is also available. The wireless transceiver PMOD board can be configured to operate on the 2400 MHz to 2483.5 MHz ISM band. The board uses a single [ADF7242](#) transceiver. The EVAL-ADF7242-PMDZ board uses two mini 2.4 GHz chip antennas, an impedance-matched filter, and a balun for minimum RF front-end parts count. The board supports antenna diversity (polarization diversity) and uses two chip... [Show More..](#)

Getting Started

The EVAL-ADF7242-PMDZ evaluation board is designed to interface with an FPGA or microcontroller using a 12-pin PMOD interface (P1). The pin configuration for an SPI interface is shown below:

... [Show More..](#)

Documentation

1 See All

1 User Guides

EVAL-ADF7242-PMDZ User Guide

WIKI

Complete documentation of the EVAL-ADF7242-PMDZ board

Software

1 See All

1 Evaluation Software

EVAL-ADF7242-PMDZ Evaluation Software

[ADF7242 Linux Driver](#) **WIKI**

[Contiki Operating System](#) **WIKI**

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EVAL-ADF7242-PMDZ Production	ADF7242 PMOD Evaluation Board		Yes
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