

ARF2010

Wideband RF/IF Transceiver IC



Applications

- Wideband RF/IF subsystems
- Cellular Infrastructure
- Repeaters

Evaluation Board

- Chip evaluation support
- GUI control of all registers



ARF2010 Evaluation Board

The ARF2010 Evaluation Board is a hardware platform designed to enable evaluation of the ARF2010 RF transceiver integrated circuit.

The hardware platform, along with its advanced GUI, supports evaluation of the most important performance parameters, for example: P1dB, IIP3, Gain, EVM, Spectral Mask, all modes of operation and other common RFIC tests.

For more information please contact Aviacomm at: sales@aviacomm.com

Product Description

The ARF2010 CMOS Transceiver IC is a highly integrated RF/IF sub-system that can be used to simplify and cost-reduce discrete RF designs. It offers the features and high-linearity required for high-performance wireless systems such as cellular infrastructure and repeaters. Including one transmitter and one receiver path, it operates from 50 MHz to 2,800 MHz on its RF ports and offers wide bandwidth on its IF ports.

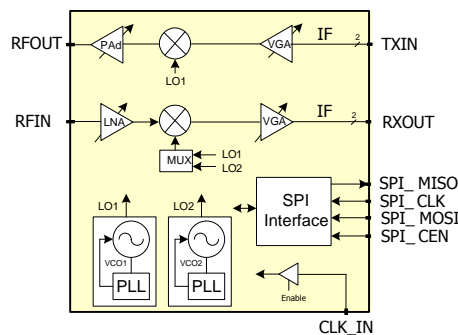
Feature Summary

- Broadband tunable RF/IF transceiver**
- Minimal external components required**
 - Fully integrated PLL synthesizers
 - TX PA driver
- Low noise figure**
- High-linearity TX output**
- Wideband IF ports**
- Programmable RX gain control**
- Programmable TX output level**
- SPI Control Interface**
- Low power consumption**
 - Power management controls
- Small Package**

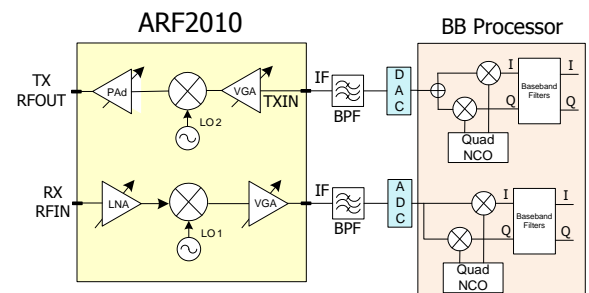
Specification Summary

Tuning Range	50 MHz - 2.8 GHz
Channel Bandwidths	RXIF up to 100MHz; TXIF up to 200MHz bandwidth
RX noise figure	< 5 dB
RX gain control	39 dB, 1 dB step
RX RF input max	-10 dBm for EVM < 2%
TX gain control	50 dB, 1 dB step
TX RF output max	-6 dBm for EVM < 2%
Supply Voltage	2.7 V & 1.8V
Control Interface	4-Wire SPI
Chip Package	7mm x 7mm, 56QFN

IC Diagram



System



For more information please
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