

ARF3010 Evaluation Board

Evaluation Board for ARF3010 Wideband RF Transceiver IC



Product Description

The ARF3010 Evaluation Board is a hardware platform designed to enable convenient evaluation of the ARF3010 RF transceiver integrated circuit. The EVB is designed as a Base board that accommodates swappable Modules that are optimized for testing various frequency bands.

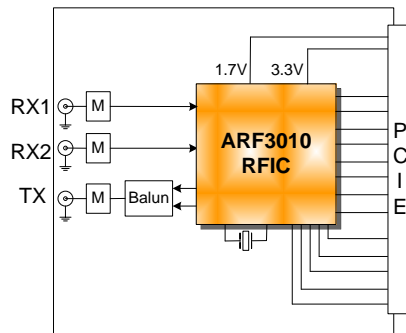
The hardware supports evaluation of the most important performance parameters, for example: P1dB, IIP3, Gain, EVM, Spectral Mask, FDD mode of operation and other common RFIC tests.

The GUI software provided with the Evaluation Board kit includes predefined profiles for typical transceiver operating modes. For reference during evaluation, log files which record time-stamped register read and write settings are automatically stored.

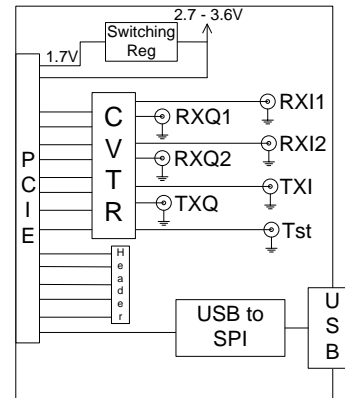
The Evaluation Board is provided as a kit that includes:

1. One Base board
2. One or more Module boards
3. A configuration GUI program for Windows PC running XP or System 7
4. A users guide that includes configuration, calibration, and test instructions

Module



Base Board



Features

- Supports testing from 50MHz to 2.80GHz
- Convenient interfaces to lab test equipment
- GUI program with predefined profiles
- Log file storage for debugging
- Displays all internal register settings
- Power control and Calibration control menus
- USB 2.0 interface

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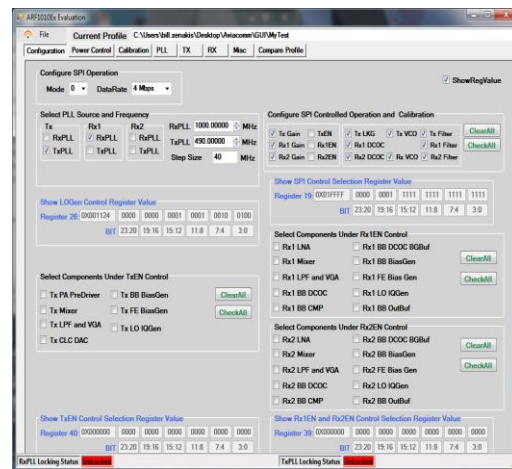
ARF3010 Evaluation Board GUI

GUI1010EX is a Windows-based application developed by Aviacomm for evaluating the functions and performance of the ARF3010 transceiver chip.



Command Menus

- Configuration
- Power control
- Calibration
- Phase Lock Loop (PLL)
- Transmit (TX)
- Receive (RX)
- Miscellaneous
- Compare Profile



Ordering Information:

ARF3010 EVB Opt "n" customer request

Opt "n"	Category	RX1 (MHz)		RX2 (MHz)		TX (MHz)*		
		Start	Stop	Start	Stop	Start	Center	Stop
A	LTE - TDD Bands 40 and 41	300	2,800	300	2,800	2,300	2,500	2,690
B	LTE - FDD Band 17, Blocks B and C	300	2,800	300	2,800	698	700	716
C	LTE - FDD Band 4, (AWS)	300	2,800	300	2,800	1,710	1,720	1,755
D	TV White Space	50	1,000	50	1,000	470	580	698
E	Custom	per customer request						

*The TX output frequency response is limited by the balun that converts the differential output to single-ended; the TX EVM is not degraded by this output power roll-off.

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