Product Details

The AD-FMCOMMS2-EBZ is a high-speed analog module designed to showcase the AD9361, a high performance, highly integrated RF transceiver intended for use in RF applications, such as 3G and 4G base station and test equipment applications, and software defined radios. Its programmability and wideband capability make it ideal for a broad range of transceiver applications. The device combines an RF front end with a flexible mixed-signal baseband section and integrated frequency synthesizers, simplifying design-in by providing a configurable digital interface to a processor or FPGA. The AD9361 chip operates in the 70 MHz to 6 GHz range, covering most licensed and unlicensed bands. The AD-FMCOMMS2-EBZ board will come specifically tuned and optimized to 2.4 GHz and due to the limitations of the on-board discrete external components, it may exhibit diminished RF performance on some other programmed configurations. The chip supports channel bandwidths from less than 200 kHz to 56 MHz by changing sample rate, digital filters, and decimation, all programmable within the AD9361 itself.

This AD-FMCOMMS2-EBZ board with AD9361 transceiver is a 2 x 2 RF configuration. The board is fully customizable by software without any hardware changes, providing options for GPS or IEEE 1588 Synchronization, and MIMO configurations.

Less ⌃

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SPECIFICATIONS & FEATURES

- Software tunable across wide frequency range (70 MHz to 6.0 GHz) with a channel bandwidth of <200 kHz to 56 MHz.
- RF section bypass for baseband sampling
- Phase and frequency synchronization on both transmit and receive paths
- Allows high channel density
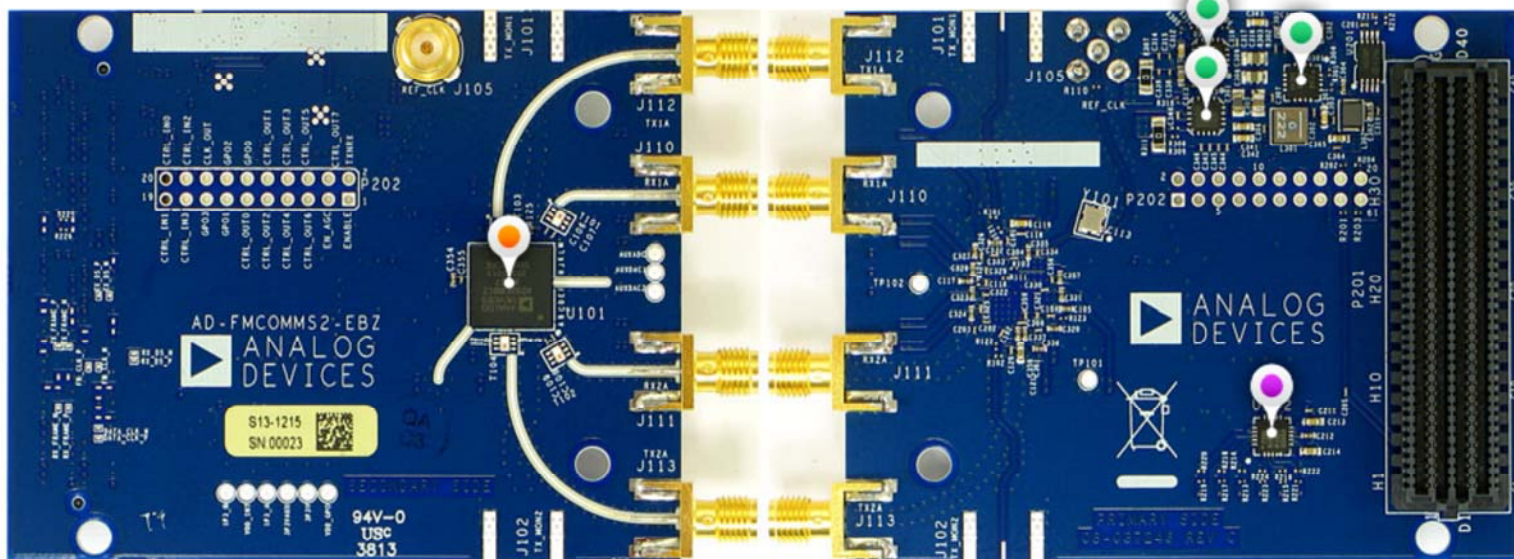- Powered from single FMC connector
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APPLICATIONS

- General purpose design suitable for any software-designed radio application
- MIMO radio
- Point to point communication systems
- Femtocell/picocell/microcell base stations
- WiFi
- ISM

10/22/2013

- Supports MIMO radio, with less than 1 sample sync on both ADC and DAC
- Includes schematics, layout, BOM, HDL, Linux drivers and application software

REFERENCE BOARD: AD-FMCOMMS2-EBZ

Hover over the colored pins to learn more about Analog Devices' products used on this board

Product Categories: ■ Data Converters ■ Power Management ■ RF / IF ICs

Additional Information

- For software and tools visit the AD-FMCOMMS2-EBZ resource page (wiki page)
- AD9361 Product Page/Data Sheet
- The AD-FMCOMMS2-EBZ Board will be Available on 10/15/13

🛒 Buy

PRICE, PACKAGING, AVAILABILITY

AD-FMCOMMS2-EBZ   Print Table

Model	Description	Price	RoHS	View PCN/ PDN	Check Inventory/ Purchase/Sample
AD-FMCOMMS2-EBZ Status: Production	Evaluation Board		Yes	-	☐

Pricing displayed is based on 1-piece. The USA list pricing shown is for budgetary use only, shown in United States dollars (FOB USA per unit), and is subject to change. International prices may vary due to local duties, taxes, fees and exchange rates.

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