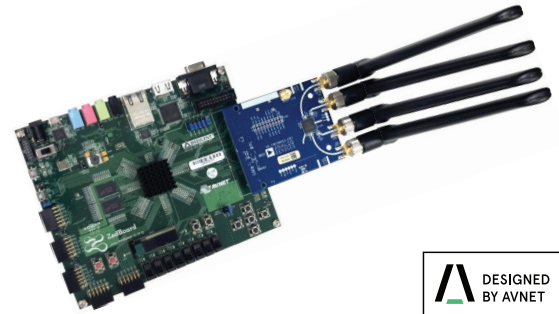


Zynq-7000 AP SoC / AD9361 Software-Defined Radio Evaluation Kit



Combining the Xilinx Zynq®-7000 All-Programmable SoC (ARM® dual-core Cortex™-A9 + 28 nm programmable logic) with the Analog Devices AD-FMCOMMS3-EBZ FMC module featuring the AD9361 integrated RF Agile Transceiver, the kit enables a broad range of transceiver applications for wireless communications. Tuned to a narrower RF range in the 2400 – 2500 MHz region, the kit is ideal for the RF engineer seeking optimized system performance meeting datasheet specifications in a defined range of RF spectrum.



FEATURES

- Combines Avnet ZedBoard™ with Analog Devices AD9361 integrated RF Agile Transceiver
- RF 2 × 2 transceiver with integrated 12-bit DACs and ADCs
- Band: factory-tuned for optimal performance at 2400 – 2500 MHz
- User-modifiable to other RF center-frequencies from 70 MHz to 6.0 GHz
- Tunable channel bandwidth at the data converter: <200 kHz to 56 MHz
- Powered from single FMC connector
- Supports MIMO radio, with less than 1 sample sync on both ADC and DAC
- Includes schematics, layout, BOM, HDL, Linux drivers and application software
- Supports add on cards for spectrum specific designs (PA, LNA etc)
- SPI access for all device registers
- Optional MathWorks tools support for communications system design

TARGET APPLICATIONS

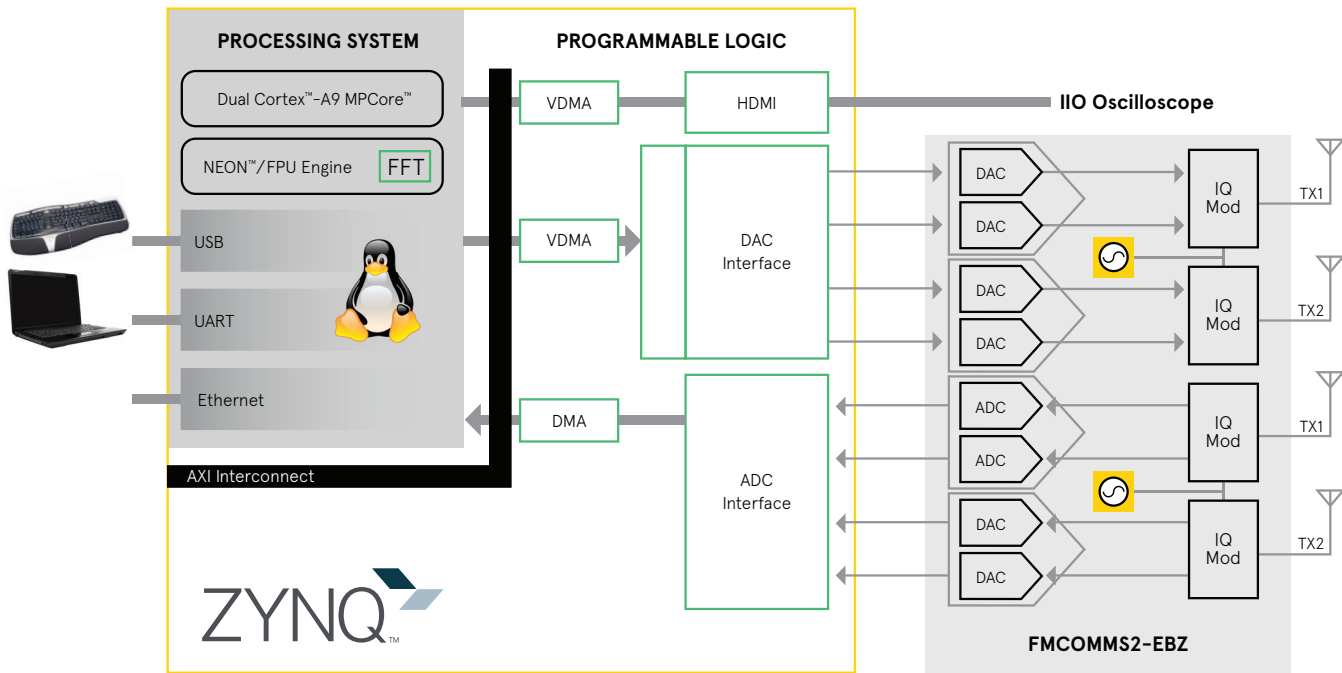
- Wireless communications development
- Remote radio head
- Software-defined radio
- Satellite modems
- Test and measurement equipment
- Radar and advanced imaging
- General-purpose data acquisition

To purchase this kit, visit www.zedboard.org

KIT INCLUDES

- AD-FMCOMMS2-EBZ
- ZedBoard (with power supply and all cables)
- Four Pulse antennas LTE blade antennas (698-960/1710-2170/2500-2700 MHz)
- Vivado® Design Edition (device-locked to Z7020)
- Getting Started Guide
- 8 GB SD card

BLOCK DIAGRAM



FEATURED MANUFACTURERS



PARTS

Part Number	Description	Resale
AES-ZSDR2-ADI-G	Zynq-7000 AP SoC / AD9361 Software-Defined Radio Evaluation Kit	\$ 1,495 USD
AES-ZSDR-ADI-G-MATW-ANUL	MathWorks Software-Defined Radio (SDR) Design Package for Avnet Zynq Software-Defined Radio Development Kits with Annual License*	\$14,600 USD
AES-ZSDR-ADI-G-MATW-PERP	MathWorks Software-Defined Radio (SDR) Design Package for Avnet Zynq Software-Defined Radio Development Kits with Perpetual License**	\$36,500 USD

*Annual Term License: Customers receive full support for the length of the license term including access to any upgrades released during the term. License must be renewed every year or the software stops working.
 **Perpetual License: Customers receive one year of free maintenance entitling them to technical support and any product upgrades released during that time. After one year, an annual maintenance fee is required for continued product upgrades and access to technical support. Customers receive full support for the length of the license term including access to any upgrades released during the term. License must be renewed every year or the software stops working. Perpetual License: Customers receive one year of free maintenance entitling them to technical support and any product upgrades released during that time. After one year, an annual maintenance fee is required for continued product upgrades and access to technical support.

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