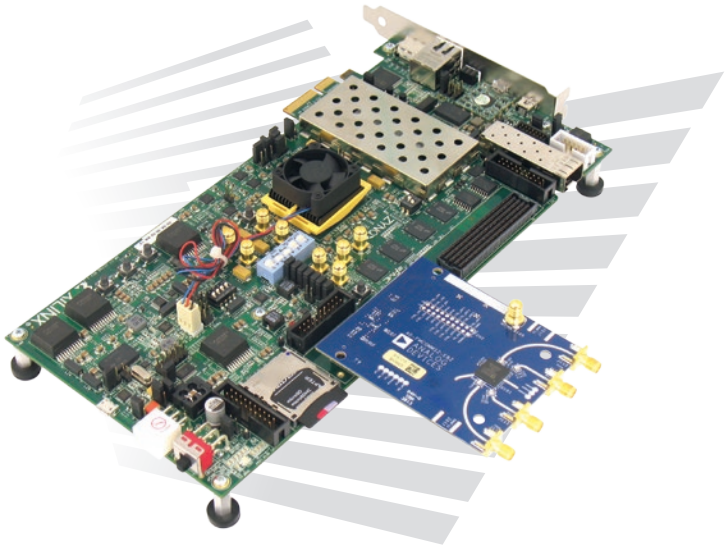
Avnet Product Brief

Zynq-7000 AP SoC / AD9361 Software-Defined Radio Systems Development Kit



DESIGNED BY AVNET

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. The kit is ideal for the wireless communications system architect seeking a unified development platform which operates over a wide RF tuning range from 70 MHz – 6 GHz.

Kit Includes

- AD-FMCOMMS3-EBZ
- Xilinx ZC706 (with power supply and all cables)
- Four Pulse antennas LTE blade antennas (698-960/1710-2170/2500-2700 MHz)
- Vivado® System Edition (device-locked to Z7045)
- Getting Started Guide
- 8 GB SD card

To purchase this kit, visit www.em.avnet.com\adizynqsdr3

Features

- Combines Xilinx Zynq-7000 All Programmable SoC ZC706 Evaluation Kit with Analog Devices AD9361 integrated RF Agile Transceiver
- RF 2 × 2 transceiver with integrated 12-bit DACs and ADCs
- Software tunable across wide frequency range (70 MHz to 6 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 demonstration and learning tool
- Remote radio head
- Software-defined radio
- Satellite modems
- Public Safety Networks
- Radar and advanced imaging
- General-purpose data acquisition

AVNET electronics marketing

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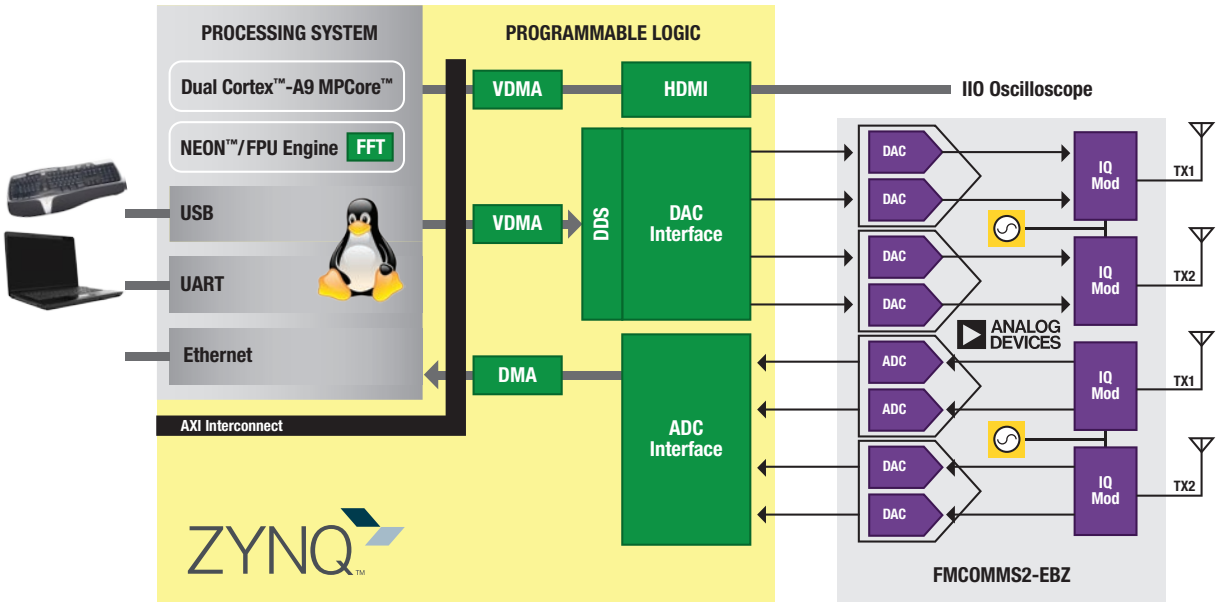

Featured Manufacturers

XILINX ALL PROGRAMMABLE™

ANALOG DEVICES

Pulse Electronics

Ordering

Part Number	Hardware	Resale
AES-ZSDR3-ADI-G	Zynq-7000 AP SoC / AD9361 Software-Defined Radio Systems Development Kit	$3,595 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

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*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.

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