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Zynq UltraScale+ RFSoC ZCU208 Evaluation Kit

OVERVIEW

Equipped with the industry's only single-chip adaptable radio device, the Zynq® UltraScale+™ RFSoC ZCU208 evaluation kit is the ideal platform for both rapid prototyping and high-performance RF application development. The equipped ZU48DR is Xilinx's highest ADC sample rate RFSoC device, designed for applications requiring wide instantaneous bandwidth. Eight integrated SD-FEC cores provide forward error correction at 80% lower power consumption than soft implementations, making the ZU48DR ideal for DOCSIS, microwave backhaul, and small cell applications.

Reference add-on cards and connectivity options make the ZCU208 kit suitable for developing, testing, and debug of next-generation products while reducing development complexity and improving time to market.

KEY FEATURES

Features Industry's Only Adaptable Single-Chip Radio Platform

> Zynq UltraScale+ RFSoC Gen 3 ZU48DR on the ZCU208 board

> Full sub-6GHz with extended mmWave and multi-band support

> Integrated direct RF-sampling enabling RF design in the digital domain

> 8x 14-bit resolution 5GSPS RF-ADCs

> 8x 14-bit resolution 10GSPS RF-DACs

  − 8 SD-FEC cores
  − Lidless package for improved thermal dissipation

Includes Add-On Cards for Evaluation and Rapid Prototyping

> XM650 16T16R N79 band loopback add-on card for quick out of box evaluation

> XM655 16T16R breakout add-on card for in-depth performance measurements

> CLK104 RF clock add-on card for internal reference clocking and external sampling clocking

Offers Flexible I/O Options

> FPGA Mezzanine Card (FMC+) including 12x 33Gb/s transceivers and 34 user defined differential I/O signals

> 2x 400pin RFMC 2.0 18GB/s interfaces

> 2x2 SFP28 interfaces for 4 SFP/SFP+/zSFP+/SFP28 modules

Comprehensive Development Tools and IP

> Programmable configurations with Vivado® Design Suite and IP

> RF Data Converter Evaluation Tool and RF Power Advantage Tool

> Reference designs and board files for rapid development

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TARGET APPLICATIONS

WIRELESS

> 5G mmWave Intermediate Frequency (IF) Transceiver

> 5G Sub-6GHz Massive-MIMO Radio

> Fixed Wireless Access

> Software Defined Radio
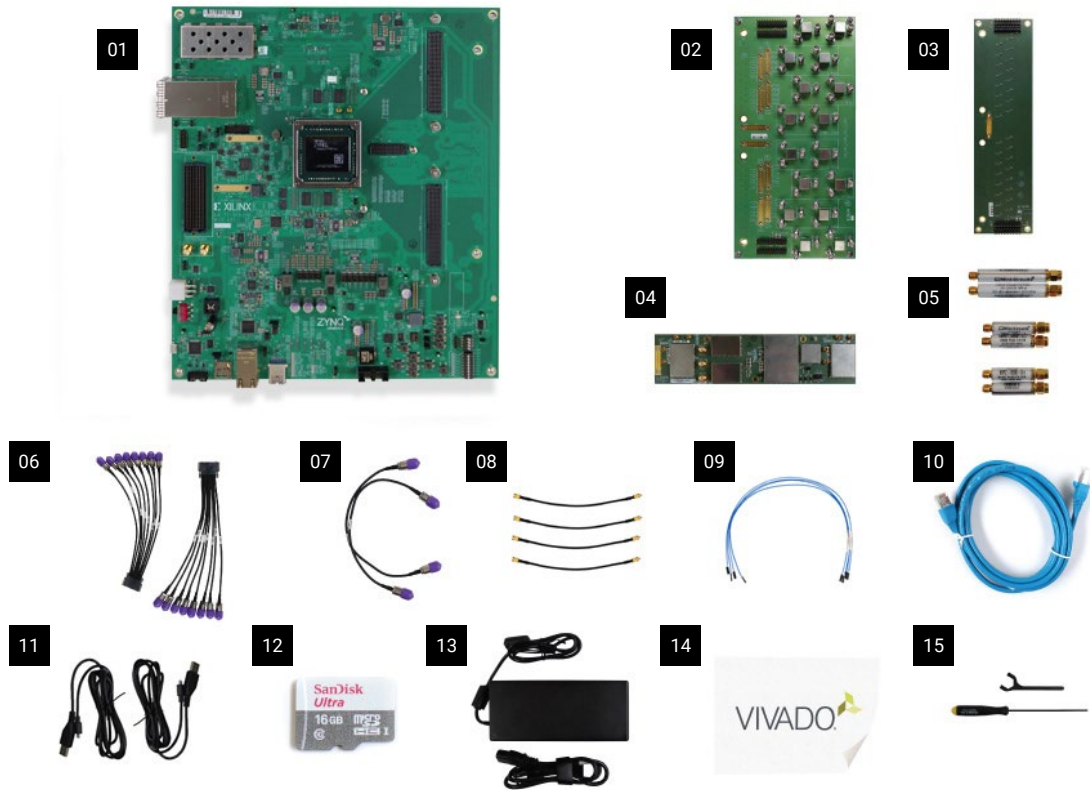
> Microwave Backhaul

AEROSPACE AND DEFENSE

> Digital Phased Array Radar

> Terrestrial Satellite Communications

CABLE ACCESS

> Remote PHY for DOCSIS 3.1 and 4.0

TEST AND MEASUREMENT

> Spectrum Analyzers

> High-Speed RF Testers

Adaptable. Intelligent.

01	ZCU208 Evaluation Board	08	4 SSMP to SSMP Cables
02	XM655 16T16R Breakout Add-On Card	09	4 Joy Signal Jumper Cables
03	XM650 16T16R N79 Loopback Add-On Card	10	Ethernet Cable
04	CLK104 RF Clock Add-On Card	11	2 Micro USB Cables
05	6 Filters	12	MicroSD Card
	2 Low Pass: DC-2500MHz	13	Power Cords and Adapters
	2 Mid Band Pass: 3000-4300MHz	14	Vivado® Design Suite: System Edition Voucher
	2 High Band Pass: 4900-6200MHz	15	Hand Tools
06	2 Carlisle SMA 8 Cable Assemblies		
07	2 SMA Cables		

TAKE THE NEXT STEP

For more information, documents, and reference designs, or to purchase, visit www.xilinx.com/zcu208

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