

Zynq UltraScale+ RFSoC ZCU216 Evaluation Kit

OVERVIEW

Equipped with the industry's only single-chip adaptable radio device, the Zynq[®] UltraScale+[™] RFSoC ZCU216 evaluation kit is the ideal platform for both rapid prototyping and high-performance RF application development.

Reference add-on cards and connectivity options make the ZCU216 kit suitable for developing, testing, and debug of next-gen products while reducing development complexity and improving time to market.

Co-optimized with Xilinx's comprehensive Vivado[®] Design Suite, the ZCU216 kit comes with design files, development tools, and IPs.

KEY FEATURES

Featuring Industry's Only Adaptable Single-Chip Radio Platform

- > Zynq UltraScale+ RFSoC Gen 3 ZU49DR on the ZCU216 board
- > Full sub-6GHz direct RF sampling with extended mmWave and multi-band support
- > 16 14-bit resolution 2.5GSPS RF-ADCs
- > 16 14-bit resolution 10GSPS RF-DACs

Add-on Cards for Fast Evaluation and Rapid Prototyping

- > XM650 16T16R N79 band loopback add-on card for quick loopback test
- > XM655 16T16R breakout add-on card for in-depth performance measurements
- CLK104 RF clock add-on card for internal reference and external sampling clocking

Flexible I/O Options for Broad Application Development

- > FMC+ interface for I/O expansion including 12 33Gb/s transceivers and 34 user defined differential I/O signals
- > 2 400pin RFMC 2.0 18GB/s interfaces
- > 2x2 SFP28 interfaces for 4 SFP/SFP+/zSFP+/SFP28 modules

Comprehensive Development Tools and IPs

- > Programmable configurations with Vivado® Design Suite and IPs
- > RF Data Converter Evaluation Tool and RF Power Advantage Tool
- > Reference designs and board files for rapid development



TARGET APPLICATIONS

Wireless

- > 5G Sub-6GHz Massive-MiMO Radio
- > 5G mmWave Intermediate Frequency (IF) Transceiver
- > Fixed Wireless Access
- > Software Defined Radio

Aerospace and Defense

- > Digital Phased Array Radar
- > Terrestrial Satellite Communications

Test and Measurement

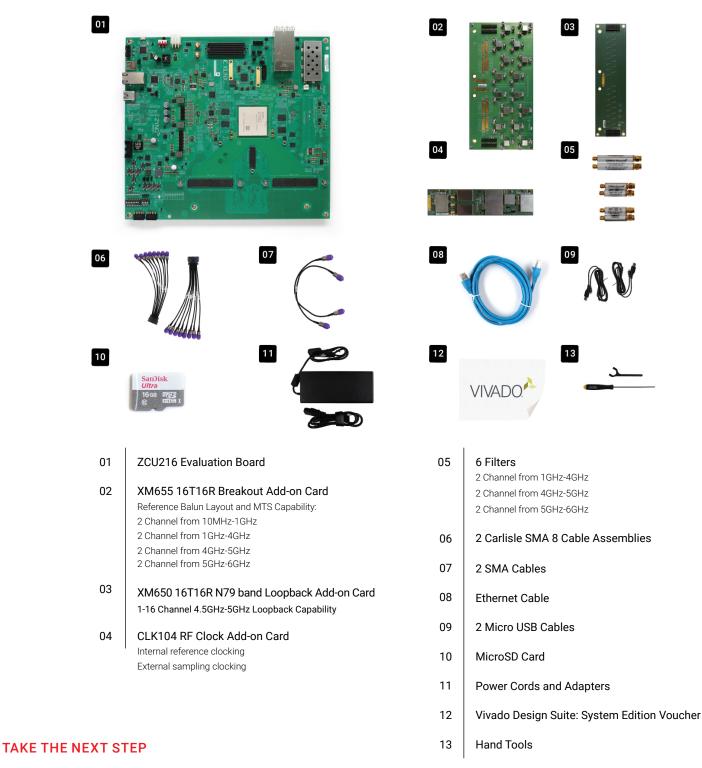
- > Spectrum Analyzers
- > High-Speed RF Testers





KIT CONTENTS

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For more information, documents, and reference designs, or to purchase, visit www.xilinx.com/zcu216

Corporate Headquarters

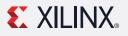
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