

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 with extended mmWave and multi-band support
- > Integrated direct RF-sampling enabling RF design in the digital domain
- > 16 14-bit resolution 2.5GSPS ADCs
- > 16 14-bit resolution 10GSPS DACs

Reference Design and Add-on Cards for Fast Evaluation and Prototyping

- XM650 16T16R loopback card for quick loopback test, multi-tile synchronization (MTS), and example reference layout for baluns
- > XM655 16T16R breakout card for in-depth performance measurements and external clocking
- > CLK104 add-on card for internal and external reference clocking

Flexible I/O Options

- > FPGA Mezzanine Card (FMC+) interface for I/O expansion
- > 2 18GB/s 400pin RFMC2.0 interfaces
- > 4 SFP28 interfaces for high-speed I/Os

Simplified Development Platform for Short Design Cycle

- > Simplified hardware design with fewer RF components vs. discrete solutions
- Easy RF configuration enabled by Xilinx[®] Vivado[®] Design Suite, IPs, and RF evaluation tool

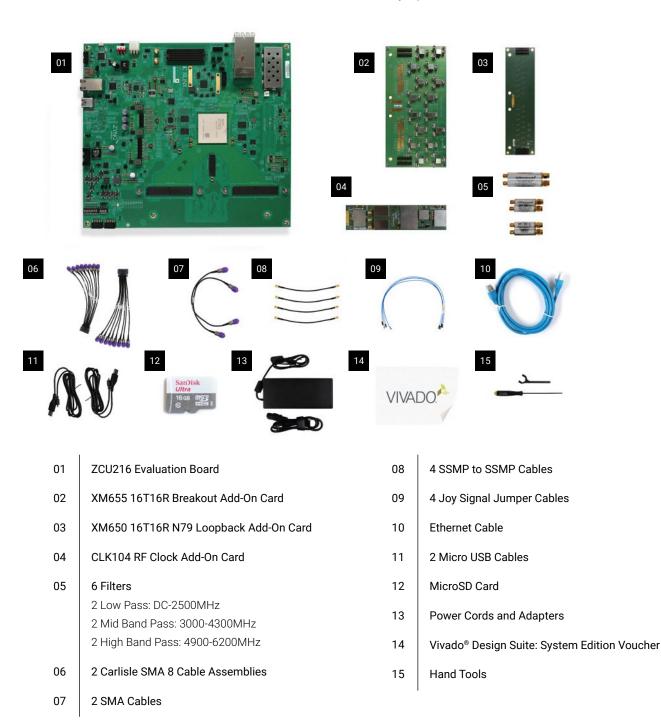




TARGET APPLICATIONS

- > 5G Wireless in Sub-6Ghz
- Millimeter Wave Intermediate Frequency (IF) Applications and Unlicensed Bands
- > Digital Phased Array Radar
- > Fixed Wireless Access
- > Terrestrial Satellite Communications
- > Test and Measurement





TAKE THE NEXT STEP

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

Corporate Headquarters

Xilinx, Inc. 2100 Logic Drive San Jose, CA 95124 USA Tel: 408-559-7778 www.xilinx.com Xilinx Europe Bianconi Avenue Citywest Business Campus Saggart, County Dublin Ireland Tel: +353-1-464-0311 www.xilinx.com

Xilinx Europe

Japan Xilinx K.K. Art Village Osaki Central Tower 4F 1-2-2 Osaki, Shinagawa-ku Tokyo 141-0032 Japan Tel: +81-3-6744-7777 japan.xilinx.com Asia Pacific Pte. Ltd.

Xilinx, Asia Pacific 5 Changi Business Park Singapore 486040 Tel: +65-6407-3000 www.xilinx.com India

Xilinx India Technology Services Pvt. Ltd. Block A, B, C, 8th & 13th floors, Meenakshi Tech Park, Survey No. 39 Gachibowil(V), Seri Lingampally (M), Hyderabad -500 084 Tel: +91-40-6721-4747 www.xilinx.com



© Copyright 2021 Xilinx, Inc. Xilinx, the Xilinx logo, Artix, ISE, Kintex, Kria, Spartan, Versal, Virtex, Vitis, Vivado, Zynq, and other designated brands included herein are trademarks of Xilinx in the United States and other countries. AMBA, AMBA Designer, ARM, ARM1176JZ-S, CoreSight, Cortex, and PrimeCell are trademarks of ARM in the EU and other countries. PCIe, and PCI Express are trademarks of PCI-SIG and used under license. All other trademarks are the property of their respective owners. Printed in the U.S.A. WW4/9/21