AMD Zynq UltraScale+™ MPSoC ZCU102 Evaluation Kit

by: AMD

The ZCU102 Evaluation Kit enables designers to jumpstart designs for automotive, industrial, video, and communications applications. This kit features an AMD Zynq™ UltraScale+™ MPSoC with a quad-core Arm® Cortex®-A53, dual-core Cortex-R5F real-time processors,

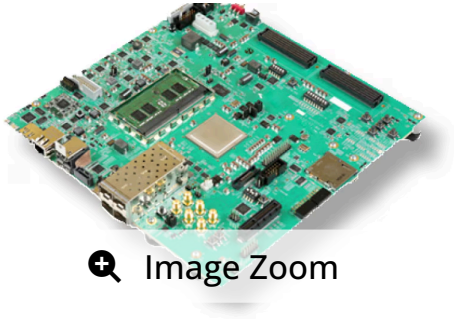


Image Zoom

and a Mali™-400 MP2 graphics processing unit based on 16nm FinFET+ programmable logic fabric by AMD. The ZCU102 supports all major peripherals and interfaces, enabling development for a wide range of applications.

Part Number:
EK-U1-ZCU102-G

Lead Time: 6 weeks

Device Support: Zynq UltraScale+ MPSoC

Add to Cart

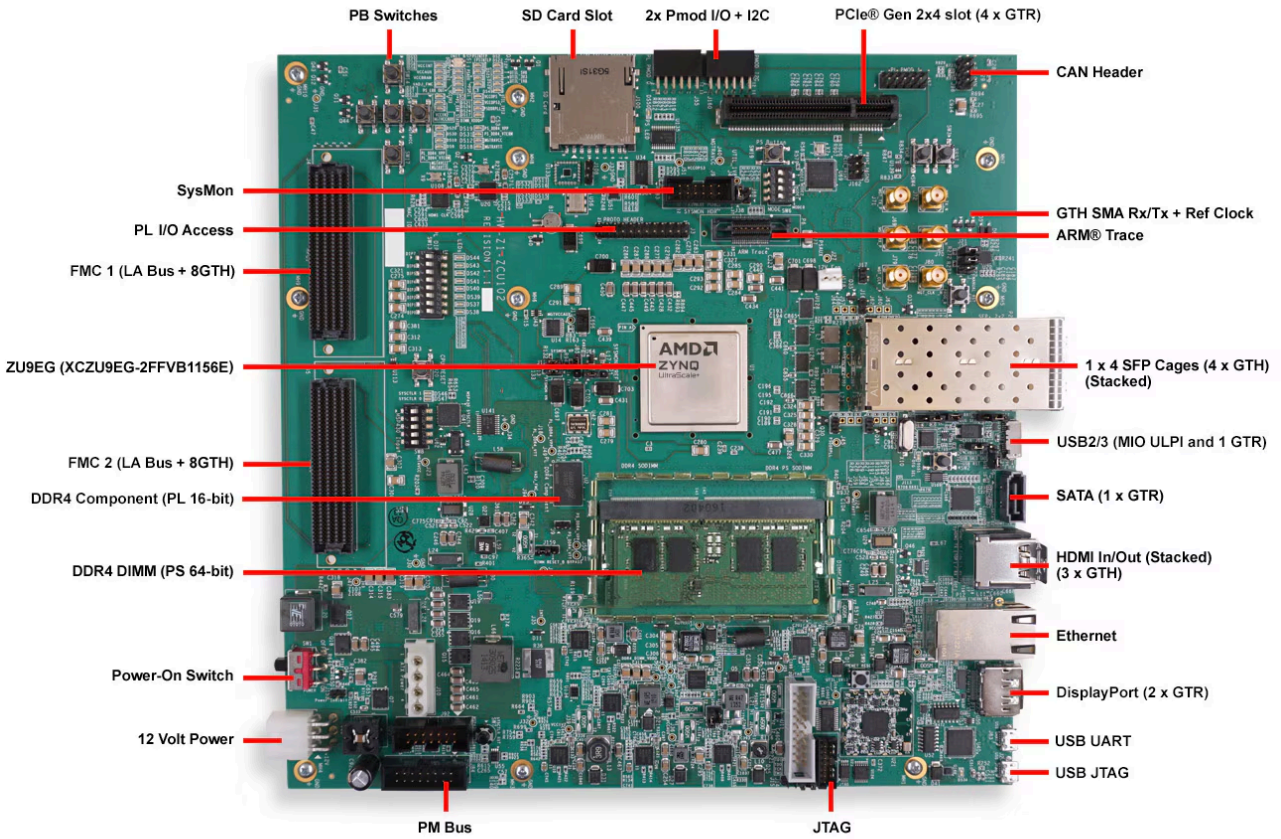
or buy from: Authorized Distributors

Product Information

Features & Devices Specifications What's Inside

Board Features

Featuring the ZCU102 Evaluation Board



Communication & Networking

- RGMII communications at 10, 100, or 1000 Mb/s. Serial GMII interface-supports a 1 Gb/s SGMII interface
- 4x SFP+ cage
- SMA GTH support (4x SMA Tx/Rx connectors)
- UART To USB bridge
- RJ45 Ethernet connector
- SATA (1 x GTR)**
- PCIe Gen2x4 Root Port**

Clocking

- Programmable clocks
- System clocks, user clocks, jitter attenuated clocks
- 2x SMA MGT input clocks

Display

- HDMI video input and output (3 GTH)
- External Retimer device driving an HDMI output connector
- 9x GPIO user LEDs (8x PL, 1x PS)
- VESA DisplayPort 1.2 source-only controller supports up to two lanes of main link data at rates of 1.62 Gb/s, 2.70 Gb/s, or 5.40 Gb/s.

Expansion Connectors

- 2x FMC-HPC connectors (16 GTH Transceivers, 64 differential user defined signals)
- 2x PMOD headers
- IIC

Configuration

- Onboard JTAG configuration

Memory

- PS 4GB DDR4 64-bit SODIMM w/

Control & I/O

- 6x Directional Push Buttons (5x

Power

- 12V wall ada or ATX

circuitry to enable configuration over USB
- Dual Quad-SPI flash memory
- Boot from SD card

ECC
- PL 512MB DDR4 component memory ([256 Mb x 16] devices) at 1200MHz / 2400Mbps DDR
- 8KB IIC EEPROM
- Dual 64MB Quad SPI flash
- SD card slot

PL, 1x PS)
- DIP switches (8x PL)
- PMBUS & System Controller MSP430 for power, clocks, and I2C bus switching
- USB2/3 (MIO ULPI and 1 GTR)**

** Switch enables either PCIe Root Port OR SATA, USB2/3 & DisplayPort

Resources

Documentation