

MicroZed™ Evaluation Kit



Electronics Marketing



Technology



DESIGNED BY AVNET



microZed™
FLEXIBILITY REDEFINED
MICROZED.ORG

Target Applications

- General Zynq®-7000 AP SoC evaluation and prototyping
- Embedded system-on-module (SOM) applications
- Embedded vision
- Test & measurement
- Motor control
- Software-defined radio
- Industrial Networking
- Industrial IoT

MicroZed™ is a low-cost development board based on the Xilinx Zynq®-7000 All Programmable SoC. Its unique design allows it to be used as both a stand-alone evaluation board for basic SoC experimentation, or combined with a carrier card as an embeddable system-on-module (SOM). MicroZed contains two I/O headers that provide connection to two I/O banks on the programmable logic (PL) side of the Zynq®-7000 AP SoC device. In stand-alone mode, these 100 PL I/O are inactive. When plugged into a carrier card, the I/O are accessible in a manner defined by the carrier card design. Thus designers can start with MicroZed in stand-alone mode as a learning platform and then easily expand its functionality as a SOM through the addition of an off-the-shelf or custom designed carrier card. This combined stand-alone/SOM approach can quickly move a design idea from concept to production, making MicroZed the ideal platform for SoC based applications.

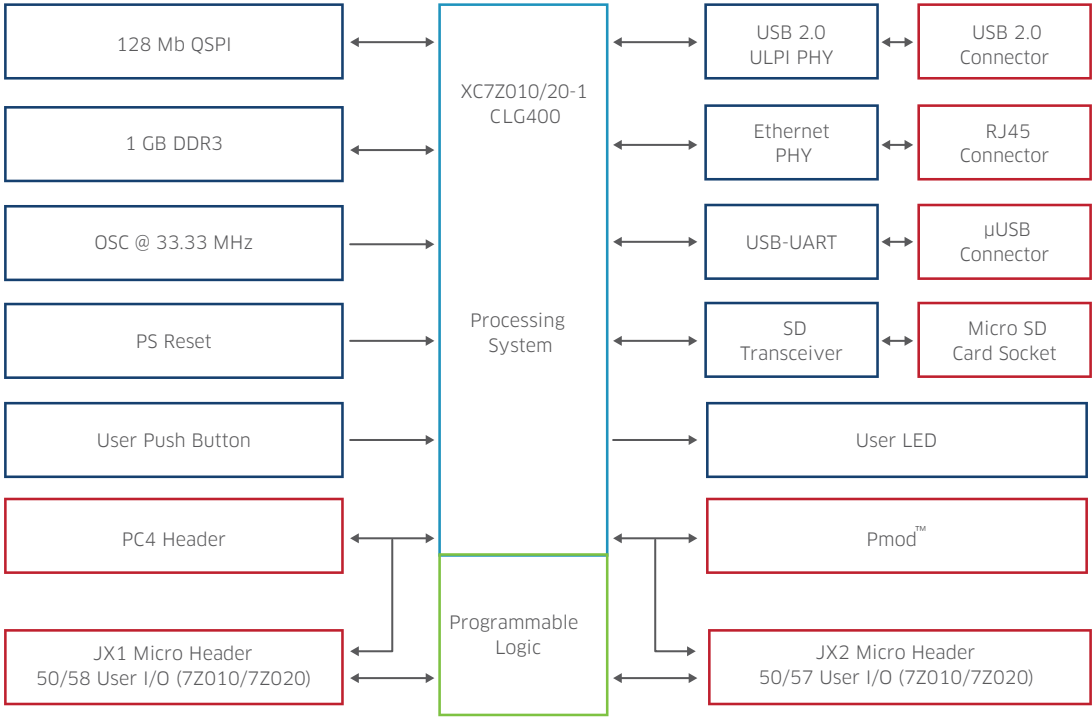
Features

- SoC
 - XC7Z010-1CLG400C
- Memory
 - 1 GB of DDR3 SDRAM
 - 128 Mb of QSPI Flash
 - Micro SD card interface
- Communications
 - 10/100/1000 Ethernet
 - USB 2.0
 - USB-UART
- User I/O (via dual board-to-board connectors)
 - 7Z010 Version
 - 100 User I/O (50 per connector)
 - Configurable as up to 48 LVDS pairs or 100 single-ended I/O
- Other
 - 2x6 Digilent Pmod® compatible interface providing 8 PS MIO connections for user I/O
 - Xilinx PC4 JTAG configuration port
 - PS JTAG pins accessible via Pmod
 - 33.33 MHz oscillator
 - User LED and push switch

Kit Includes

- MicroZed board
- Micro USB cable
- 4 GB µSD card
- Xilinx Vivado WebPACK support
- Getting Started Card

Block Diagram



Parts:

Part Number	Description	Resale
AES-Z7MB-7Z010-G	MicroZed Evaluation Kit	\$199 USD

Related Parts:

Part Number	Description	Resale
AES-Z7MB-7Z010-SOM-G	MicroZed 7010 SOM - Standard Version	\$130 USD*
AES-Z7MB-7Z020-SOM-G	MicroZed 7020 SOM - Standard Version	\$157 USD*
AES-Z7MB-7Z010-SOM-I-G	7Z010 Ext. Temp MicroZed SOM	\$160 USD*
AES-Z7MB-7Z020-SOM-I-G	7Z020 Ext. Temp MicroZed SOM	\$194 USD*

(For production purposes, does not include cables or microSD card)

*1K. For other quantities, see www.microzed.org/buy

Countries Available for Purchase: Americas, EMEA, Asia, Japan

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