

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

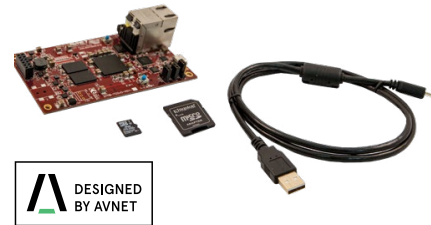
### User I/O (via dual board-to-board connectors)

- 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

To purchase this kit, visit [www.microzed.org](http://www.microzed.org)



COMPATIBLE WITH

**/MICROZED™**

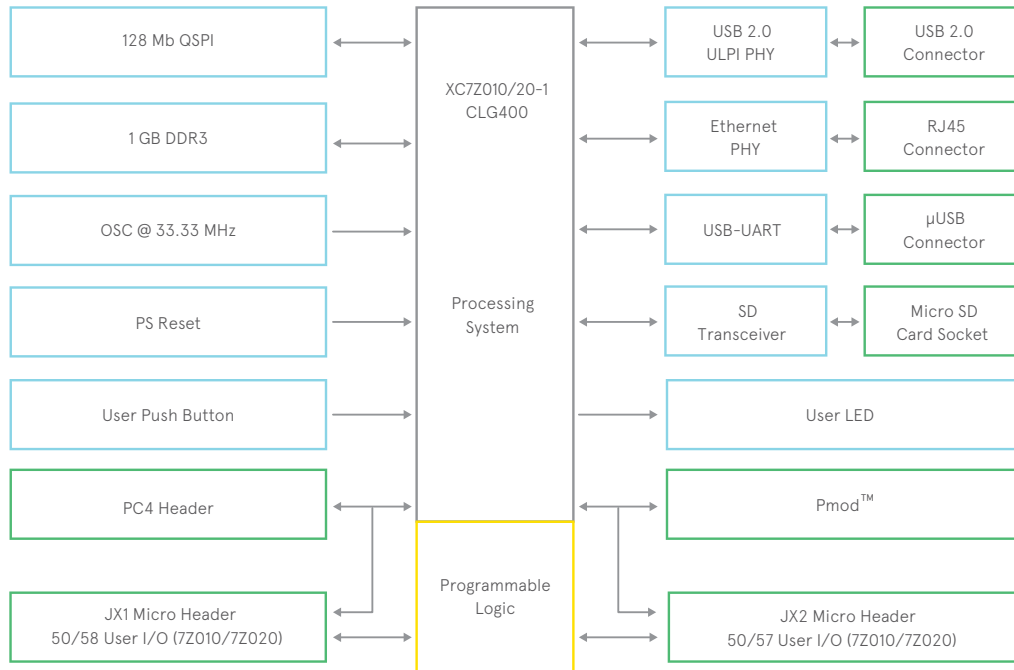
## KIT INCLUDES

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

## 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

## BLOCK DIAGRAM



## PARTS

Part Number	Description	Pricing
AES-Z7MB-7Z010-G	MicroZed Evaluation Kit	See online catalog*

## RELATED PARTS

Part Number	Description	Pricing
AES-Z7MB-7Z010-SOM-G	MicroZed 7010 SOM - Standard Version	See online catalog*
AES-Z7MB-7Z020-SOM-G	MicroZed 7020 SOM - Standard Version	
AES-Z7MB-7Z010-SOM-I-G	7Z010 Ext. Temp MicroZed SOM	
AES-Z7MB-7Z020-SOM-I-G	7Z020 Ext. Temp MicroZed SOM	

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

\*VISIT ONLINE CATALOG: [WWW.AVNET.COM](http://WWW.AVNET.COM)

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