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
**PARTS**

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<th>Description</th>
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<tr>
<td>AES-Z7MB-7Z010-G</td>
<td>MicroZed Evaluation Kit</td>
<td>See online catalog*</td>
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<td>7Z010 Ext. Temp MicroZed SOM</td>
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**Countries Available for Purchase:** Americas, EMEA, Asia, Japan

*VISIT ONLINE CATALOG: WWW.AVNET.COM