The I/O Carrier Card supports the MicroZed™ Evaluation Kit and System-on-Module (SOM), providing easy access to the full 108 user I/O available from the MicroZed SOM. Two 100-pin MicroHeaders on the carrier card mate with the MicroZed, connecting over 80 of the MicroZed Programmable Logic (PL) I/O to 12 Digilent Pmod™ compatible interfaces. The remaining MicroZed I/O are connected to various I/O Carrier Card features, including push button switches, DIP switches, LEDs, EEPROM, Xilinx XADC, and clock oscillator. The I/O Carrier Card also generates the necessary power rails for MicroZed, providing 5 V to the MicroZed core, user selectable bank voltages for the PL I/O, and the necessary voltages for the XADC. The I/O Carrier Card speeds prototype and evaluation of MicroZed and provides an excellent starting point for creating your own MicroZed carrier card.

**FEATURES**

**Interfaces**
- Two 100-pin board-to-board MicroHeaders
- Xilinx PC4 header for download/debug
  - Accesses PL JTAG
- Twelve Digilent Pmod™ compatible interfaces
  - Access to 80 user I/O
  - One connected to PS MIO
  - Two connected to Bank 13 (supported with 7Z020 MicroZed only)
- Reset push button
- 4 User push buttons
- 2 Configuration push buttons
- 8 User LEDs
- 4 User DIP switches
- 2 Status LEDs
- Xilinx AMS Header

**On-board Oscillator**
- 100 MHz

**On-board Memory**
- 1 KB 1-wire EEPROM

**Power**
- Internal
  - 5 V connection to MicroZed and XADC
  - Two 1.8/2.5/3.3 V @ 2 A Regulators for MicroZed VCCIO
  - Filtered 1.8 V @ 0.2 A Regulator for XADC
  - 1.25 V @ 0.2 A Regulator for XADC

**Input**
- 5 V Barrel jack input

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

<table>
<thead>
<tr>
<th>Part Number</th>
<th>Description</th>
<th>Resale</th>
</tr>
</thead>
<tbody>
<tr>
<td>AES-MBCC-I0-G</td>
<td>I/O Carrier Card</td>
<td>$149 USD</td>
</tr>
</tbody>
</table>

RELATED PARTS

<table>
<thead>
<tr>
<th>Part Number</th>
<th>Description</th>
<th>Resale</th>
</tr>
</thead>
<tbody>
<tr>
<td>AES-Z7MB-7Z010-G</td>
<td>MicroZed Evaluation Kit</td>
<td>$199 USD</td>
</tr>
<tr>
<td>AES-Z7MB-7Z010-SOM-G</td>
<td>System-on-Module Version of MicroZed 7010</td>
<td>$192 USD (qty = 1-99)*</td>
</tr>
<tr>
<td>AES-Z7MB-7Z020-SOM-G</td>
<td>System-on-Module Version of MicroZed 7020</td>
<td>$289 USD (qty = 1-99)*</td>
</tr>
</tbody>
</table>

*For quantities greater than 100 call for quote

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

CONTACT INFORMATION

North America
2211 S 47th Street
Phoenix, Arizona 85034
United States of America
eval.kits@avnet.com
1-800-585-1602

Europe
Gruber Str. 60c
85586 Poing
Germany
marketing@silica.com
+49-8121-77702

Japan
Yebisu Garden Place Tower, 23F
4-20-3 Ebisu, Shibuya-ku
Tokyo 150-6023 Japan
eval-kits-jp@avnet.com
+81-(0)3-5792-8210

Asia
151 Lorong Chuan
#06-03 New Tech Park
Singapore 556741
XilinxAPAC@avnet.com
+65-6580-6000