The Breakout Carrier Card supports the MicroZed™ Evaluation Kit and System-on-Module (SOM), providing easy access to 100 Programmable Logic (PL) user I/O available from the MicroZed SOM. Two 100-pin MicroHeaders on the carrier card mate with the MicroZed, connecting the Programmable Logic (PL) I/O to two simple 0.1” connector footprints as well as a bread-boarding area. The Breakout Carrier Card generates the necessary power rails for MicroZed, providing 5 V to the MicroZed core and a user selectable bank voltage for the PL I/O and Breakout connectors. The Breakout Carrier Card is the simplest, least expensive way to enable the PL I/Os on the MicroZed SOM.

**FEATURES**

**Interfaces**
- Two 100-pin board-to-board MicroHeaders
- Two 60-pin (2 x 30) 0.1” footprints
  - Two 2 x 30 female sockets included in the kit
  - May be mounted by the user on either top or bottom side
  - Accesses 100 user I/O, 5 V, Vccio, GND and two control signals

**Power**
- Internal
  - Proper sequencing and handshaking as per MicroZed Carrier Card Design Guide
  - 5 V for MicroZed power routed from input power
  - 1.8/2.5/3.3 V @ 1A Regulator for MicroZed and Breakout VCCio
- Input
  - 5 V @ 2 A input via microUSB connector
  - Vbat header footprint for experimenting with Zynq security keys (optional)

**TARGET APPLICATIONS**
- Zynq evaluation and prototyping
- Embedded system-on-module (SOM) applications
- Test & measurement
- General I/O Expansion

For more information and to purchase the carrier card, visit [www.microzed.org](http://www.microzed.org)
### Block Diagram

- **MicroHeader, JX1**
  - 5 V
  - Vccio (1.8/2.5/3.3 V)

- **MicroHeader, JX2**
  - Vccio_en
  - Bank 34/35 Pins

- **Breakout Connector**
  - Bank 0 Pins
  - Power Pins
  - Control
  - /3
  - /50

### Featured Manufacturers

- **Texas Instruments**
- **FCI**

### Parts

<table>
<thead>
<tr>
<th>Part Number</th>
<th>Description</th>
<th>Resale</th>
</tr>
</thead>
<tbody>
<tr>
<td>AES-MBCC-BRK-G</td>
<td>MicroZed Breakout Carrier Card</td>
<td>$59 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-ZMB-7Z010-G</td>
<td>MicroZed Evaluation Kit</td>
<td>$199 USD</td>
</tr>
</tbody>
</table>

Visit the product website to learn more about our standard and extended temperature MicroZed SOM options.

### Contact Information

<table>
<thead>
<tr>
<th>Region</th>
<th>Address</th>
<th>Phone</th>
<th>Email</th>
</tr>
</thead>
<tbody>
<tr>
<td>North America</td>
<td>2211 S 47th Street Phoenix, Arizona 85034 United States of America <a href="mailto:eval.kits@avnet.com">eval.kits@avnet.com</a> 1-800-585-1602</td>
<td>+1-800-585-1602</td>
<td><a href="mailto:eval.kits@avnet.com">eval.kits@avnet.com</a></td>
</tr>
<tr>
<td>Europe</td>
<td>Gruber Str. 60c 85586 Poing Germany <a href="mailto:marketing@silica.com">marketing@silica.com</a> +49-8121-77702</td>
<td>+49-8121-77702</td>
<td><a href="mailto:marketing@silica.com">marketing@silica.com</a></td>
</tr>
<tr>
<td>Japan</td>
<td>Yebisu Garden Place Tower, 23F 4-20-3 Ebisu, Shibuya-ku Tokyo 150-6023 Japan <a href="mailto:eval-kits-jp@avnet.com">eval-kits-jp@avnet.com</a> +81-(0)3-5792-8210</td>
<td>+81-(0)3-5792-8210</td>
<td><a href="mailto:eval-kits-jp@avnet.com">eval-kits-jp@avnet.com</a></td>
</tr>
<tr>
<td>Asia</td>
<td>151 Lorong Chuan #06-03 New Tech Park Singapore 556741 <a href="mailto:XilinxAPAC@avnet.com">XilinxAPAC@avnet.com</a> +65-6580-6000</td>
<td>+65-6580-6000</td>
<td><a href="mailto:XilinxAPAC@avnet.com">XilinxAPAC@avnet.com</a></td>
</tr>
</tbody>
</table>