# MicroZed™ Breakout Carrier Card



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
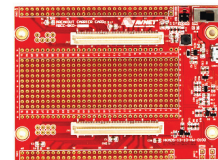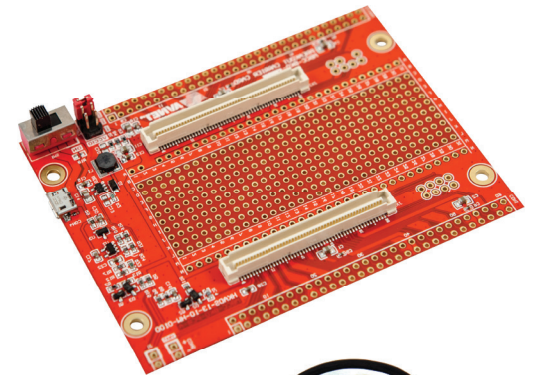
**Power**

- 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 @ 1 A 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
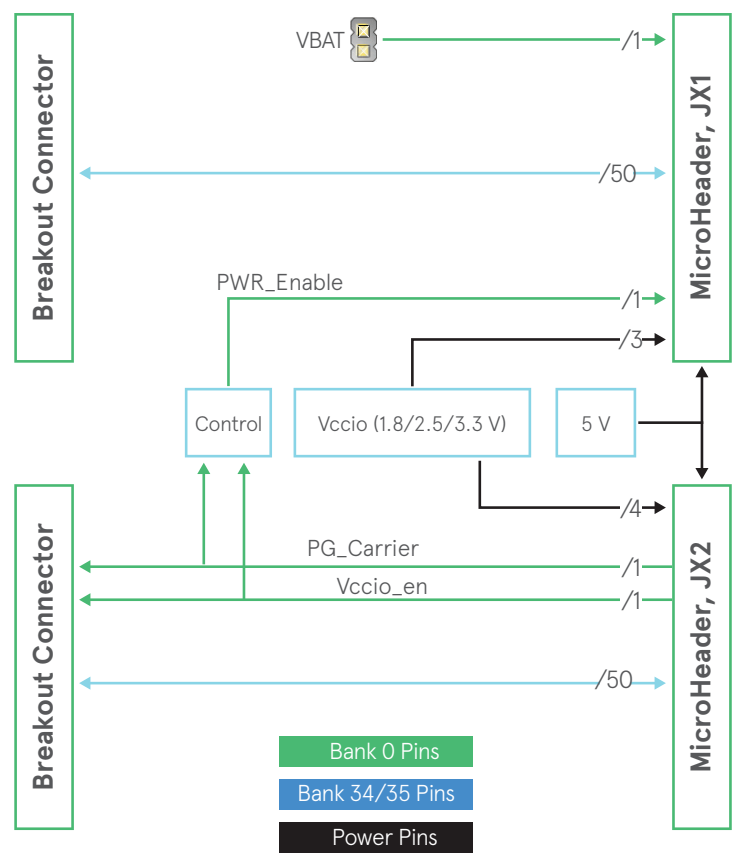- Test & measurement
- General I/O Expansion

For more information and to purchase the carrier card, visit www.microzed.org

## KIT INCLUDES

- Breakout Carrier Card
- 5 V @ 2 A AC/DC Power Supply with microUSB power cable
- MicroZed mounting hardware
- Two 2 x 30 female sockets
- Quick Start Card

## BLOCK DIAGRAM



## FEATURED MANUFACTURERS

Texas Instruments

FCI

## PARTS

| Part Number | Description | Resale |
|---|---|---|
| AES-MBCC-BRK-G | MicroZed Breakout Carrier Card | $59 USD |

## RELATED PARTS

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

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