

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

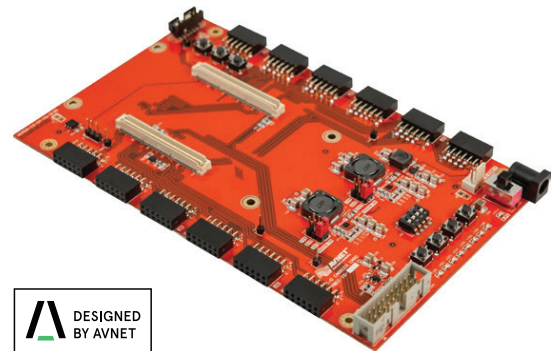
### Power

- 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)



COMPATIBLE WITH

**/MICROZED™**

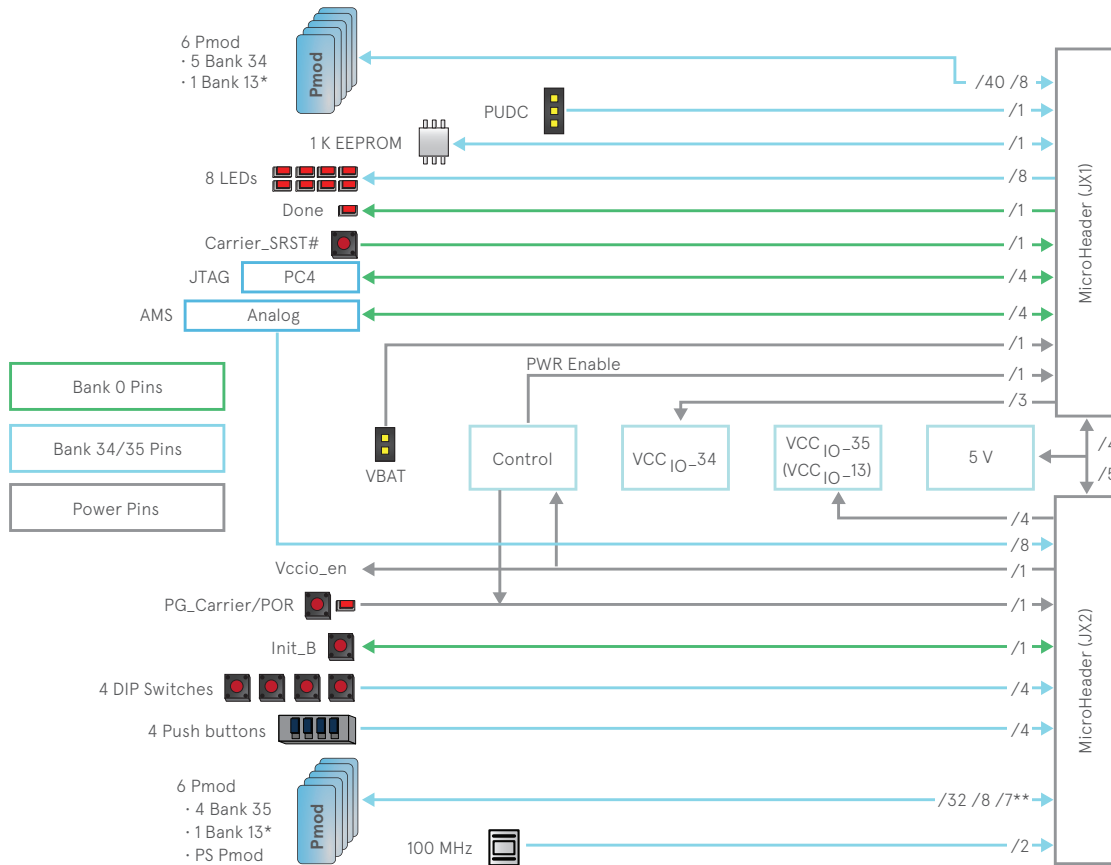
### KIT INCLUDES

- I/O Carrier Card
- 5 V @ 3 A AC/DC Power Supply
- Getting Started Card

### TARGET APPLICATIONS

- General MicroZed evaluation and prototyping
- Embedded system-on-module (SOM) applications
- Test & measurement

## BLOCK DIAGRAM



\* Bank 13 I/O only supported by the 7Z020 version of MicroZed  
 \*\* Bank 13 Pmod only has 7 I/O Pins

## PARTS

Part Number	Description
AES-MBCC-IO-G	I/O Carrier Card

## RELATED PARTS

Part Number	Description
AES-Z7MB-7Z010-G	MicroZed Evaluation Kit
AES-Z7MB-7Z010-SOM-G	System-on-Module Version of MicroZed 7010
AES-Z7MB-7Z020-SOM-G	System-on-Module Version of MicroZed 7020

\*For quantities greater than 100 call for quote

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

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