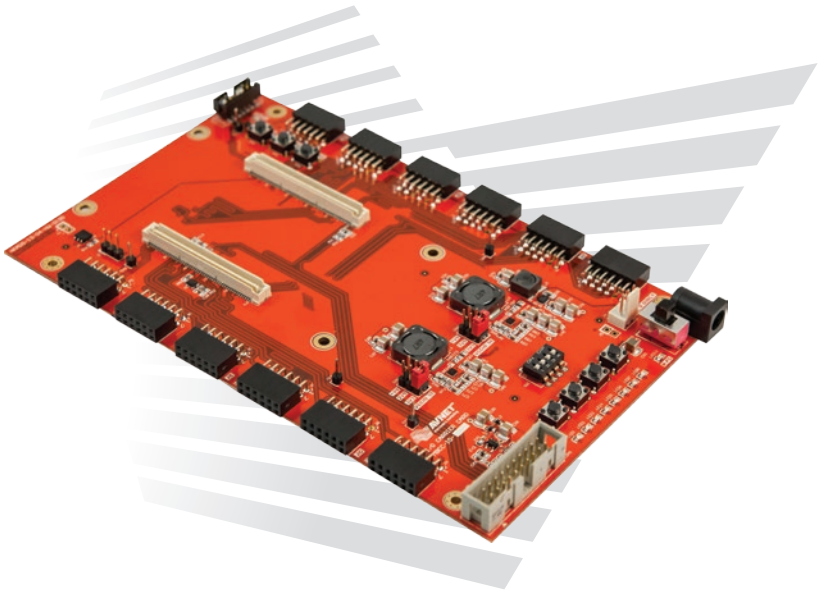
Avnet Product Brief

I/O Carrier Card

DESIGNED BY AVNET



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.

Kit Includes

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

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

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

Target Applications

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

MicroZed™ Compatible

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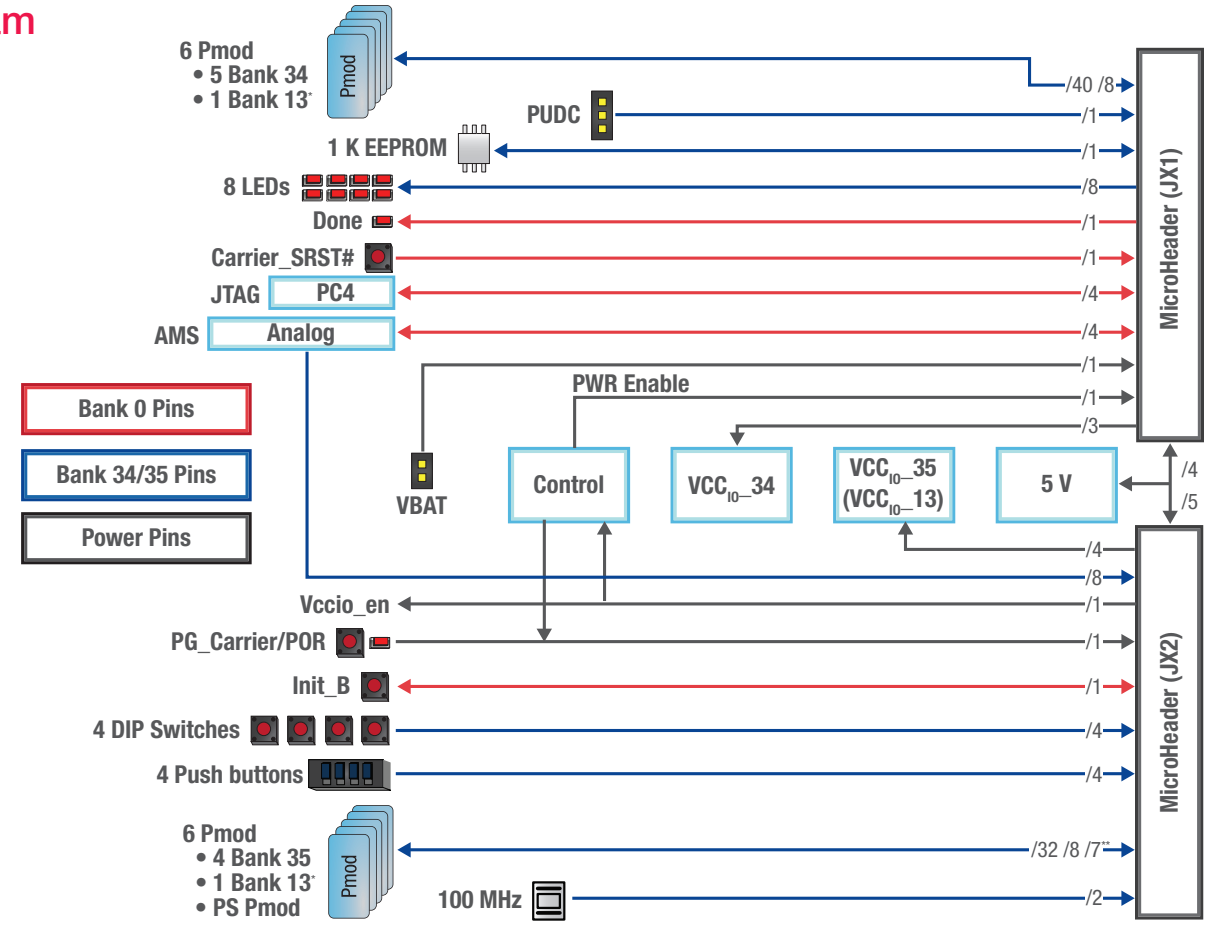
Block Diagram



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

Ordering

Part Number	Description	Resale
AES-MBCC-IO-G	I/O Carrier Card	$149 USD
Associated Parts		
AES-Z7MB-7Z010-G	MicroZed Evaluation Kit	$199 USD
AES-Z7MB-7Z010-SOM-G	System-on-Module Version of MicroZed 7010	$192 USD (qty = 1-99)*
AES-Z7MB-7Z020-SOM-G	System-on-Module Version of MicroZed 7020	$289 USD (qty = 1-99)*

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

*For quantities greater than 100 call for quote

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