

August 21, 2017



## Product Change Notification PCN17002

### MicroZed Rev F to Rev G

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**Subject:** MicroZed SOM PCB revision is moving from Rev-F to Rev-G

**Products Affected:** This PCN affects the part numbers listed below.

AES-Z7MB-7Z010-SOM-G      AES-Z7MB-7Z010-SOM-I-G  
AES-Z7MB-7Z020-SOM-G      AES-Z7MB-7Z020-SOM-I-G

#### Change Description:

DDR Vtt Regulator: U13 pin 2 moved from 1.8V to 3.3V

Power to CP2104 USB/UART changed to source from USB Bus so it will stay active on a board power cycle.

Ethernet PHY:

- a) Reset; Schmitt trigger AND gate and RC network added to provide a minimum 10mS delay after power-up
- b) Address; Resistor jumpers added to allow more flexibility for addressing.

PCB Stack up: Changed to provide better isolation between signals and better EMC performance.

BOM:

- a) Passive and interconnect part selection altered to conform to the current supply chain to reduce lead-times.
- b) QSPI FLASH, U7, Changed preferred source to Micron and retaining Spansion as an alternate

#### Reason for Change:

There were no verified faults due to the rev-F design but the Ethernet Phy reset change was needed to conform to the Marvell data sheet. The additional changes were made to improve the overall module performance and manufacturability.

#### More Information

Care was taken to insure that in its default state the MicroZed Rev-G board will operate just as the MicroZed Rev-F does so there is no need for our customers to modify their designs.

When the base part numbers listed above are ordered Avnet reserves the right to ship either rev-F or rev-G depending on inventory available, however customers can also stipulate a version by adding the revision to the part number (AES-Z7MB-7Z010-SOM-G/REV-F). There are no plans to build MicroZed Rev-F after August 2017 but there will be inventory in stock for several months during the transition.

Customers with MicroZed SOMs in products are encouraged to qualify the Rev-G boards as quickly as possible to avoid sourcing issues in the future. If for any reason the Rev-G board can't be qualified Avnet can continue to build the rev-F boards but an MOQ will be enforced.

The latest documentation, including schematics, can be found on the product page.

<http://microzed.org/product/microzed>

For any questions regarding this PCN please use the [MicroZed Hardware Design Forum](#).