Product Change Notification PCN17002
MicroZed Rev F to Rev G

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.