Product Change Notification PCN15002
All MicroZed & PicoZed SOMs

Subject: QSPI Chip Select resistor value change for the entire MicroZed and PicoZed SOM product line.

Products Affected: This PCN affects all models (7010/15/20/30) of the MicroZeds C01, C04, C05, SBC-C1 (revised to F-07) and all PicoZed Rev C01 and C02 and boards (revised to C02 and C03 respectively).

Change Description: The QSPI Chip Select pullup resistor value on all product lines have been increased from 240 ohms to 4.99K ohms.

1) The following reference designators have been changed from 240 ohm to 4.99K ohm.
   a. MicroZed SOM: R71
   b. MicroZed SBC: R81
   c. PicoZed 7010/20: R71
   d. PicoZed 7015/30: R75

Reason for Change:

1) In Xilinx’s DS187 data sheet the Zynq PS MIO standard current rating is +/- 8mA with a maximum of 10 mA.
   a. The 240 ohm pullup resistor is an unnecessarily low value. 240 ohms yields an approximate pin current of 12.9mA, which includes the Rds_on value of the PS MIO pin. This exceeds the recommendations provided by Xilinx.
   b. Increasing the resistance from 240 ohms to 4.99K ohms reduces the pin current to approximately 0.661mA while ensuring QSPI_CS signal is pulled low enough to be valid for the QSPI device.

2) There have been no adverse reports with the 240 ohm resistor placed.

3) Additional Support: For any questions regarding this PCN you may contact your local Avnet sales representative.