

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: R74
 - 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.