

# Product Change Notification PCN15002

## All MicroZed & PicoZed SOMs

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**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.