

# Product Change Notification PCN14002

## MicroZed Board Input Voltage Support

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**Subject:** Operating MicroZed boards above 5V.

**Products Affected:** This PCN affects all MicroZed boards BD-Z7MB-7Z0x0-xx...

**Change Description:** Starting with BOM revision F-06 all Capacitors attached to the input power rail will be rated at 16V or above.

Replace 6.3V CAPs with 16V as follows:

0.1uF – C67, C206, C208, C214, C216

4.7uF – C209, C210, C213, C215

100uF – C62, C211, C50, C207

TDK C0603X5R1C104K030BC

Taiyo Yuden EMK105ABJ225MV-F (2.2uF)

Taiyo Yuden EMK325ABJ107MM-T

(Supplier part numbers are supplied for reference, equivalent parts may be substituted.)

**Reason for Change:** Changing these CAPs will make it easier for customers wanting to power the board at voltages above our specified 5V to do so.

**Note:** MicroZed boards as shipped are restricted to  $V_{in}=5V$  only.

The input voltage to the MicroZed board is connected to the USB bus power of J1 through resistor R50. Customers powering this board with a voltage  $>5V$  must first remove R50 to prevent damage to external hardware plugged into J1 and possibly the MicroZed board itself.

If the application requires the USB port on J1 to be a Host and source 5V to external USB devices and the board input voltage is above 5V, U18 and its surrounding circuitry must be installed in addition to removing R50. Consult the BOM and sheet 5 of the MicroZed schematics for details.

For boards built prior to Revision F-06 ( $\{\text{PCB rev}\}-\{\text{BOM rev}\}$ ) the user must also replace the input Capacitors as listed above prior to raising the input voltage above 5V.

Once the modifications described in this document are completed the MicroZed board can be safely operated with an input voltage from 5V to 12V DC. Operation above  $12V+10\%$  is not recommended for MicroZed boards.

For any questions regarding this PCN you may contact your local Avnet sales representative.