Pine64 "Woodpecker" USB UART adapter Product change note #1, December 2022

When the voltage mode selection jumper on the "Woodpecker" USB UART adapter is placed in the 3.3 V position, the "Woodpecker" sometimes does not work as expected and is not recognized at all by the host computer that it is plugged into. The 5 V mode is not affected by this issue.

The root cause is a PCB design error that causes one of the pins of the 3.3 V LDO voltage regulator found on the "Woodpecker" not to be properly connected to the ground. Consequently, the 3.3 V mode of the adapter becomes unreliable, randomly failing to work as expected.

To check is your "Woodpecker" USB UART adapter affected by this issue, you can use a multimeter to check for missing continuity between the pin #1 (ground) on the 3.3 V LDO regulator and the GND pin on the five-pin UART header, which are all visible in the picture below. To fix this issue on affected "Woodpecker" PCBs, the pin #1 (ground) of the 3.3 V LDO voltage regulator needs to be connected to the nearest available ground, as illustrated in the picture below. Note that thin magnet coil wire with special lacquer coating is used in the picture, but that is not mandatory; it is only important not to short some other components on the PCB while applying the fix.

This issue has been corrected by a design change on the revised "Woodpecker" PCB.

