

Board 4.1.1 Assembly

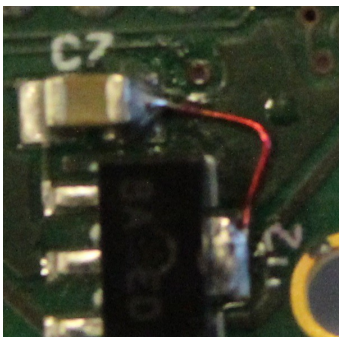
In order to complete the assembly of the board 4.1.1, the following steps have to be performed.

Wires soldering

As the PCB is missing 3 connections, the three following wires have to be soldered. On the top side:

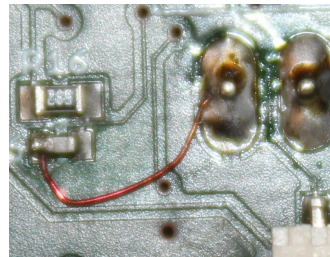
- +3V3: Connection between diode D3 and 10 pins' connector ANA(below the Xbee)

On the bottom side:

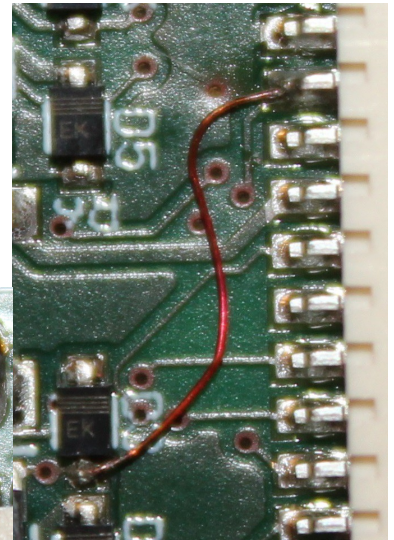


Bottom side C7

- GND: Connection between C7 capacitor and U2 ground pin on Bottom side
- GND: Connection between C26 capacitor and power connector's ground pin on Bottom side



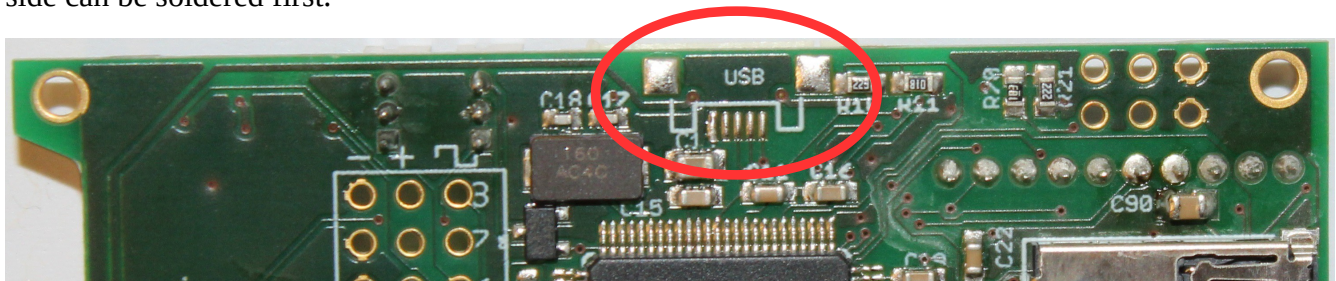
Bottom side C26



Top side

Components soldering

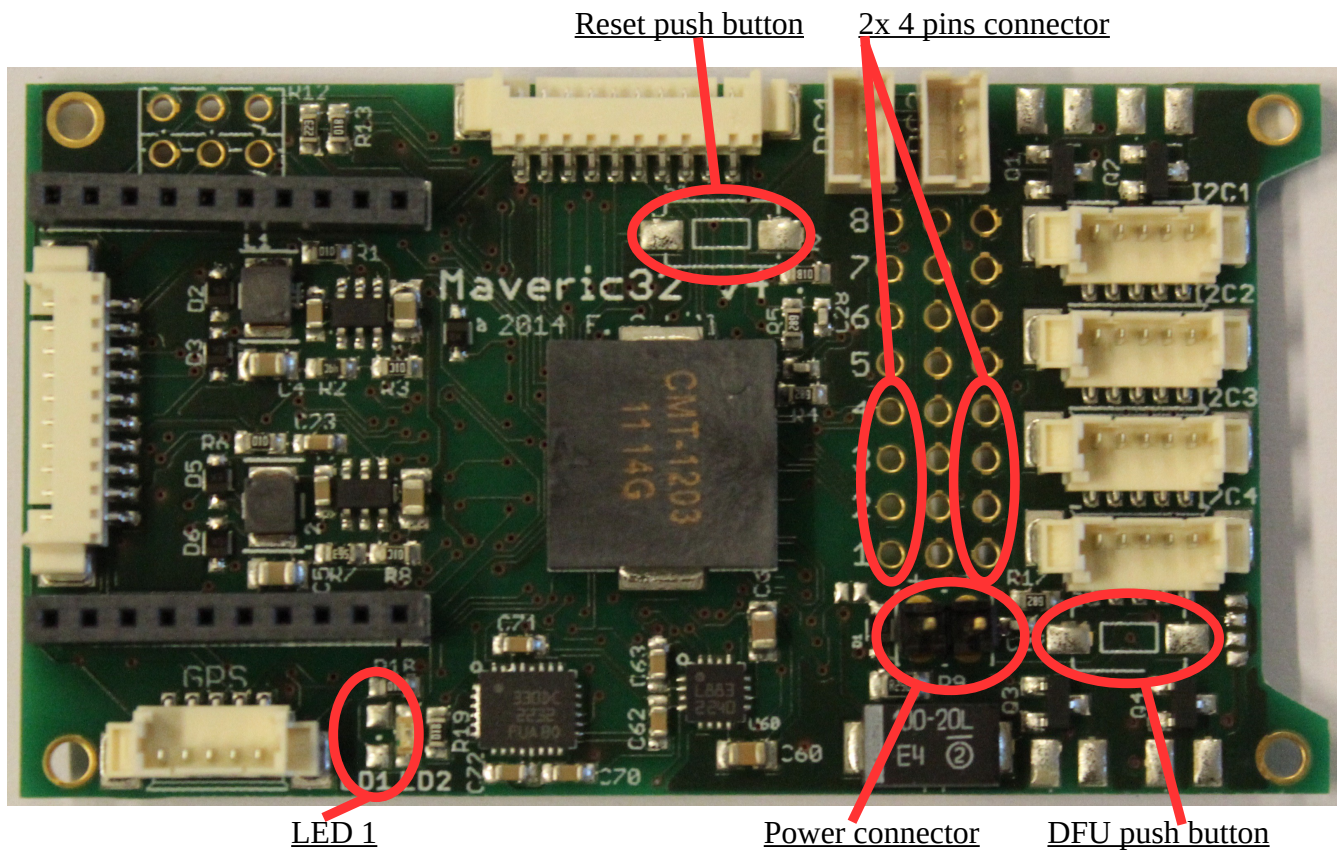
Some components not placed must be soldered. For practical reason, the USB connector on the bottom side can be soldered first.



USB footprint on the bottom side

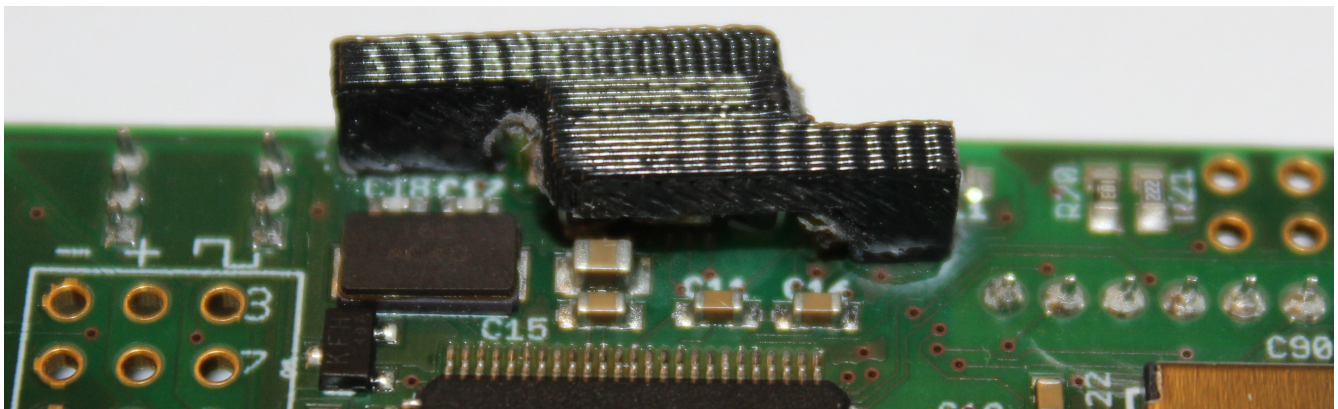
On the top side, the following components must be soldered:

- 2 push buttons (reset and DFU) and one LED (cathod oriented down on the picture)
- 2x 4 pins connector for servos as indicated in the picture
- Replace the 2 pins power connector by a bigger one (the same type as servos' one)



Additional elements

In order to protect the USB connector from the electrical stress induce by the cable, a 3D printed part is glued on top of the connector.



3D printed part glued

Contact

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