

# DIY Ninjas Section

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## Contents

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CM1 support (how to change power mode)

Undeclared feature: usb client mode

Device tree (DTS and dt-blob.bin)

Ready to use dt-blob.bin file:

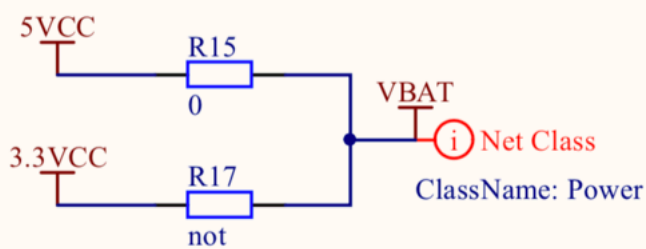
DTS source file

Schematic of the StereoPi board

## CM1 support (how to change power mode)

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### Select VBAT for CM1 or CM3



CM1 - VBAT=3.3VCC

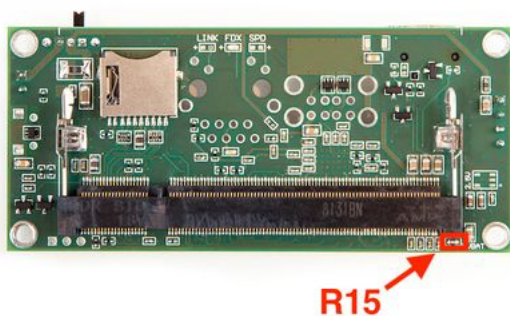
CM3 - VBAT=5VCC

Compute Module 1 needs 5V power for VBAT, and CM3/CM3+ needs 3.3V VBAT.

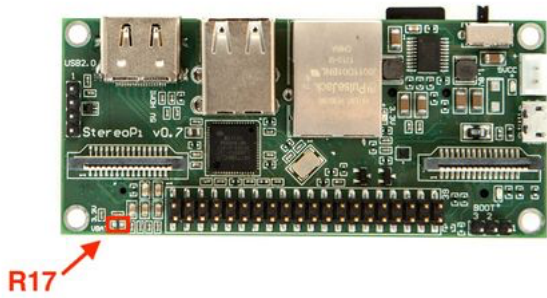
By default StereoPi is tuned to provide 5V voltage for CM3 series support.

To change powering mode for CM1 support you need:

1. Unsolder R15 (0 Ohm) resistor here:

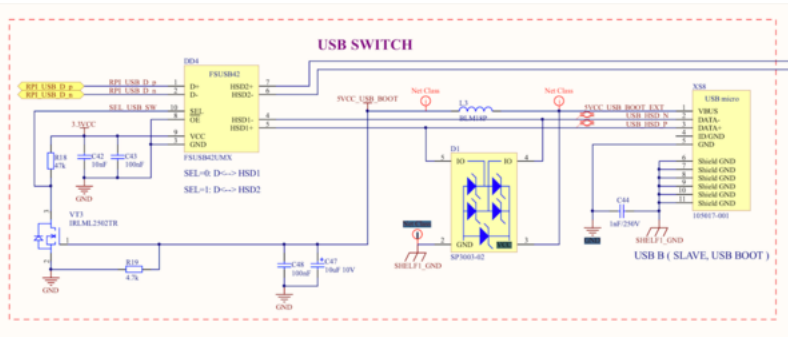


2. Solder R17 (0 Ohm) resistor or piece of wire here:



## Undeclared feature: usb client mode

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You can easily access CM's USB on MicroUSB connector. You need to unplug the power cable, and connect StereoPi's MicroUSB cable to your computer without installing USB SLAVE jumper. In this case DD4 USB switch will connect CM's USB pins directly to MicroUSB connector. Onboard USB and LAN will be disabled, and you can use [usb-gadget](http://www.linux-usb.org/gadget/) (<http://www.linux-usb.org/gadget/>) API to turn on RNDIS LAN, usb camera or other modes on StereoPi according to your aim.

If you connect StereoPi by MicroUSB cable to your computer AND install USB SLAVE jumper, you will turn on firmware upload mode. Start `rpiboot.exe` (<https://www.raspberrypi.org/documentation/hardware/computemodule/cm-emmc-flashing.md>) to make eMMC visible as external drive.

## Device tree (DTS and dt-blob.bin)

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### Ready to use dt-blob.bin file:

Download mirror 1 (<http://wiki.stereopi.com/files/dt-blob.bin.zip>) (Wiki hosting)

Download mirror 2 (<http://stereopi.com/sites/default/files/dt-blob.bin.zip>) (website hosting)

### DTS source file

Download mirror 1 (<http://wiki.stereopi.com/files/dt-blob.dts.zip>) (Wiki hosting)

Download mirror 2 (<http://stereopi.com/sites/default/files/dt-blob.dts.zip>) (website hosting)

## Schematic of the StereoPi board

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We plan to publish all schematics right after sending boards to our bakers.

Original StereoPi schematic was created in Altium, and now we're trying to choose appropriate open source tool. At this moment we tend to choose [KiCad \(http://kicad-pcb.org\)](http://kicad-pcb.org). If you have some ideas which tool should we use for opening our schematic, please let us know in our twitter here:

<https://twitter.com/StereoPi>

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This page was last edited on 21 February 2019, at 10:42.