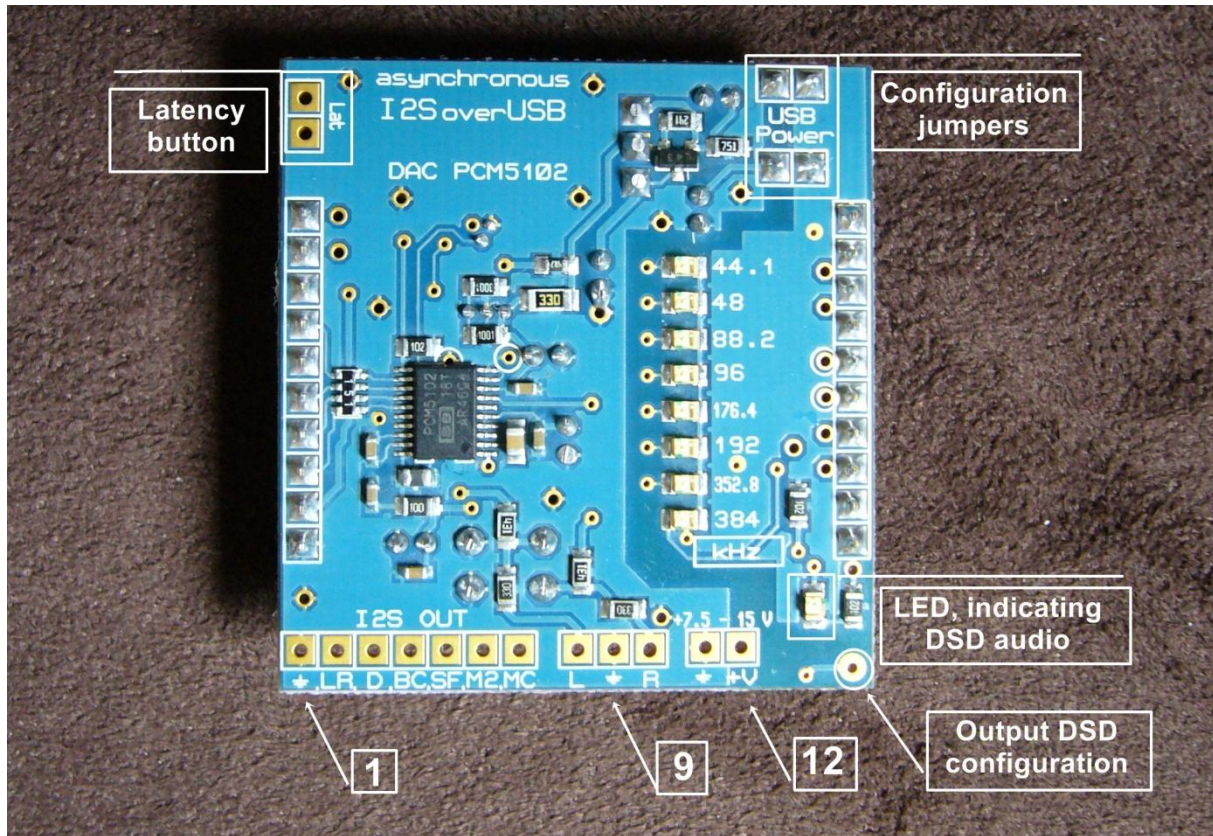


PCM5102 board



Pin #	Signal
1	GND
2	LRCK
3	DATA
4	BCLK
5	S/PDIF
6	MCLK2
7	MCLK
8	Left analog DAC output
9	GND
10	Right analog DAC output
11	GND
12	Input +7.5V to +9.0V stabilized external power supply. Recommended: +7.5V

Latency button – One can choose between FIR / IIR filters. Default state is FIR filter.

Output DSD configuration – Open collector output, galvanic isolated by optocoupler for DAC configuration in DSD mode. If output is 0V – DSD data, if output is in high impedance – not DSD data.

Configuration jumpers – If jumpers are installed, the board is USB powered. If jumpers are open then you have to provide external power supply to pin 11→ GND and pin 12 → +7.5V.

The board is configured to be fed entirely by USB host (default).

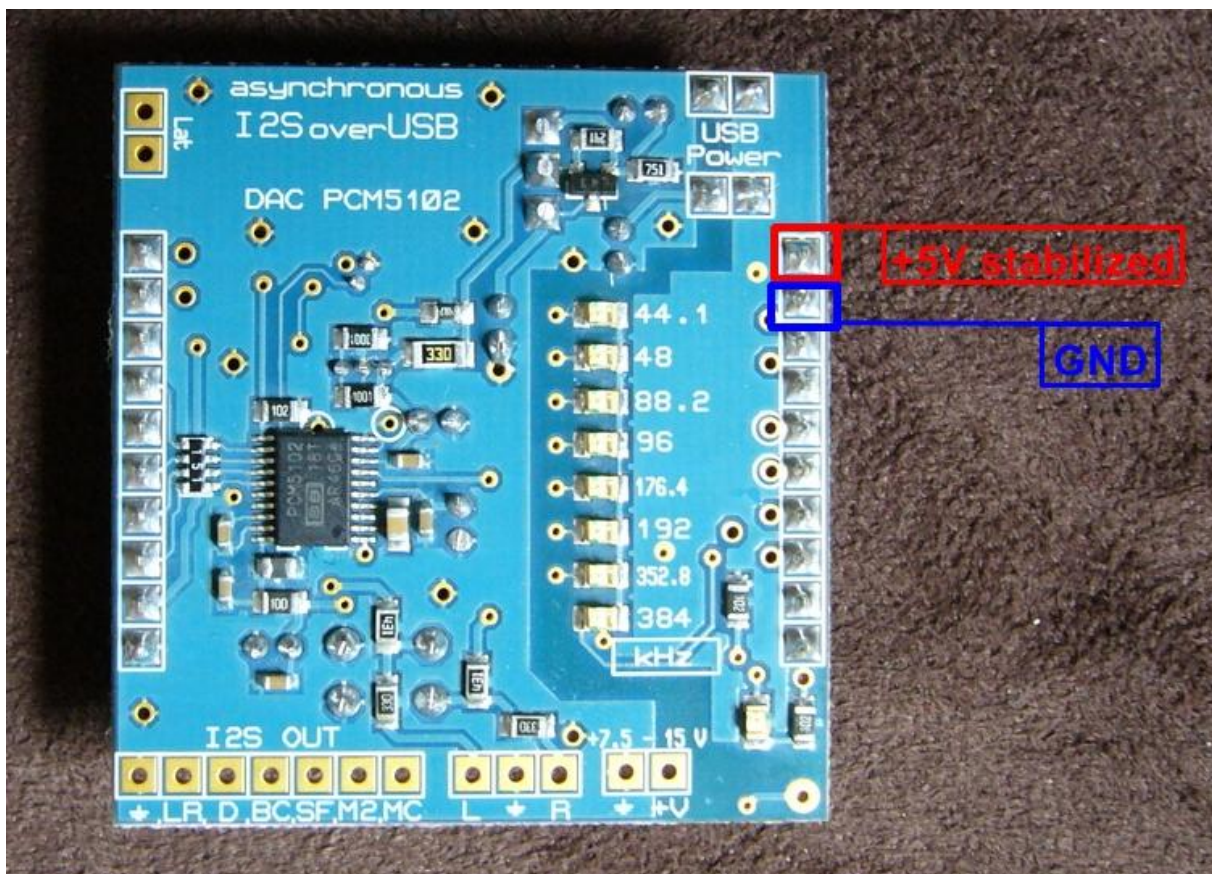
If you use **both** boards together there are two ways for power supply.

1. Two boards are powered from USB bus. Default state. Galvanic isolation is avoided (on I2SoverUSB board, USB jumper is installed and on PCM5102 board, configuration jumpers are installed).
2. External power supply for the PCM5102 board – +7.5V to +9V on pin 12. This power supply is feeding PCM5102 and generators and reclocks on I2SoverUSB board. On I2SoverUSB board, USB jumper is installed and on PCM5102 board, configuration jumpers are opened.

Power options for I2SoverUSB with PCM5102 board for USB ports with lower output current. In these variants I2SoverUSB board consumes less than 10mA from USB host.

First variant:

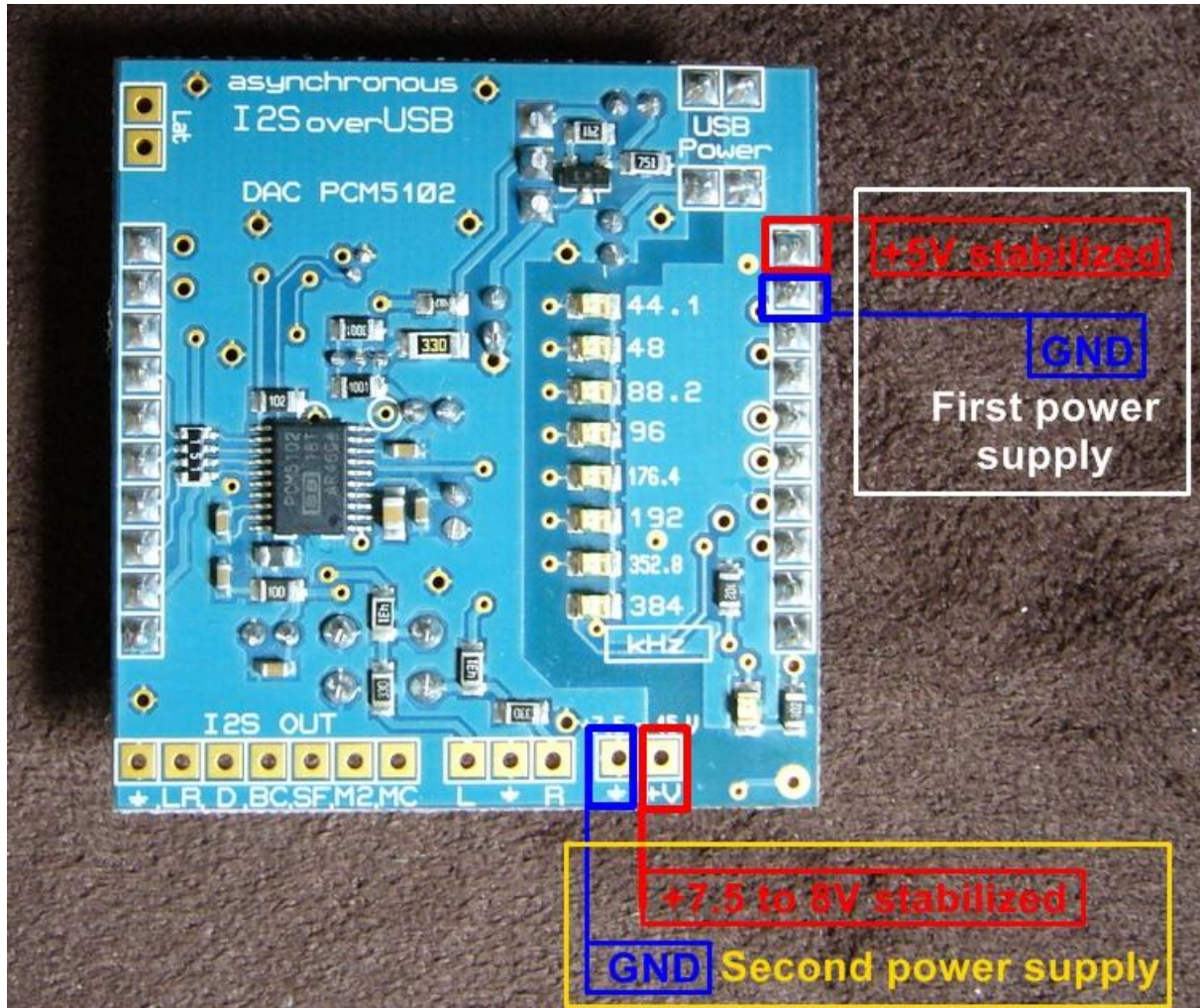
On I2SoverUSB board USB jumper is opened; and on PCM5102 board configuration jumpers are installed. In this way this power supply is feeding both PCBs. Galvanic isolation is avoided.



This power supply has to be greater than 500mA.

Second variant:

On I2SoverUSB board USB jumper is opened; and on PCM5102 board configuration jumpers are opened. First power supply is feeding the USB part and the second power supply is feeding generators, reclocks and the PCM5102.



First power supply has to be greater than 400mA.

Second power supply has to be greater than 200mA.