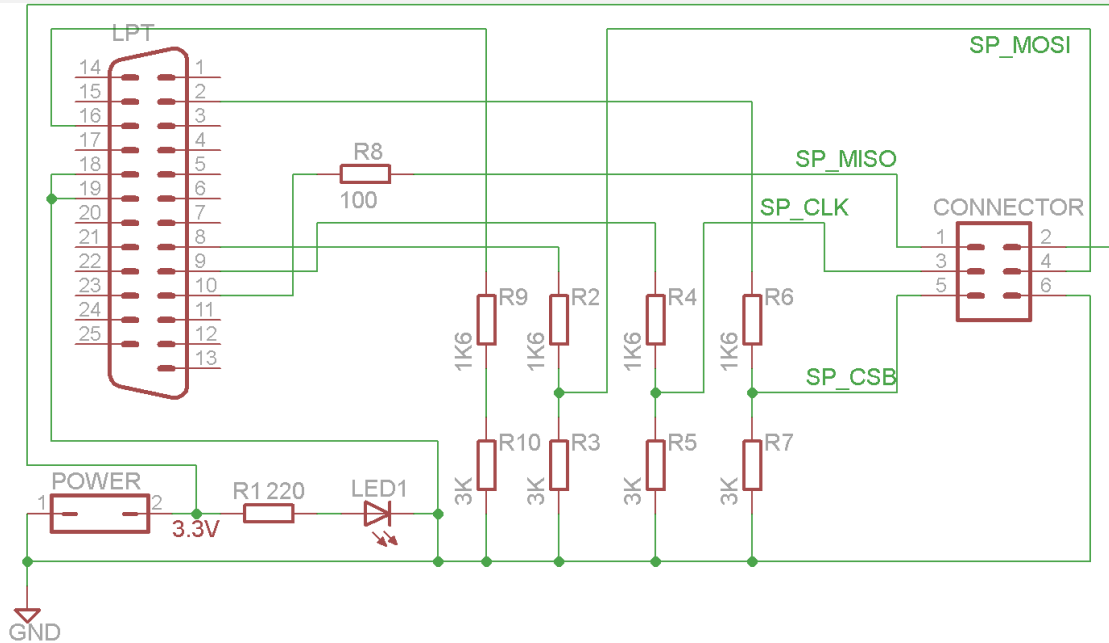


Can this module be flashed and loaded with my own firmware? If so, will I need a platform?

Yes. You'll need the CSR BlueLab software and an SPI interface. The SPI interface can be made like this



img src: <http://i46.tinypic.com/23h9fs4.jpg>

. Bluelab

costs 3000\$, but for hobby use I guess you can use a copy downloaded from the internet. This contains the CSR stack, examples, XAP compiler and everything else you need to make firmware for this device.

I see. Sorry I'm very new -- which pins on the module do the pins 1-6 on the "connector" correspond to? Thanks.

I don't have a datasheet for this module, but have one for another module that looks the same (suppose the same, only with other firmware), power, reset and uart pins match, so I guess the rest will match as well.

Interfaces on this module:

SPI:

16: CSB

17: MOSI

18: MISO

19: CLK

USB:

15: D-

20: D+

PCM:

5: CLK

6: OUT

7: IN

8: SYNC

Analog:

9: AIN0

10: AIN1

GPIO:

23-34: GPIO0-11

Power:

11: Reset

12: 3.3V

13: GND

21: GND

22: GND

UART:

1: TX

2: RX

3: CTS

4: RTS

Everything except UART TX and RX will need your own firmware, even the flow control pins.

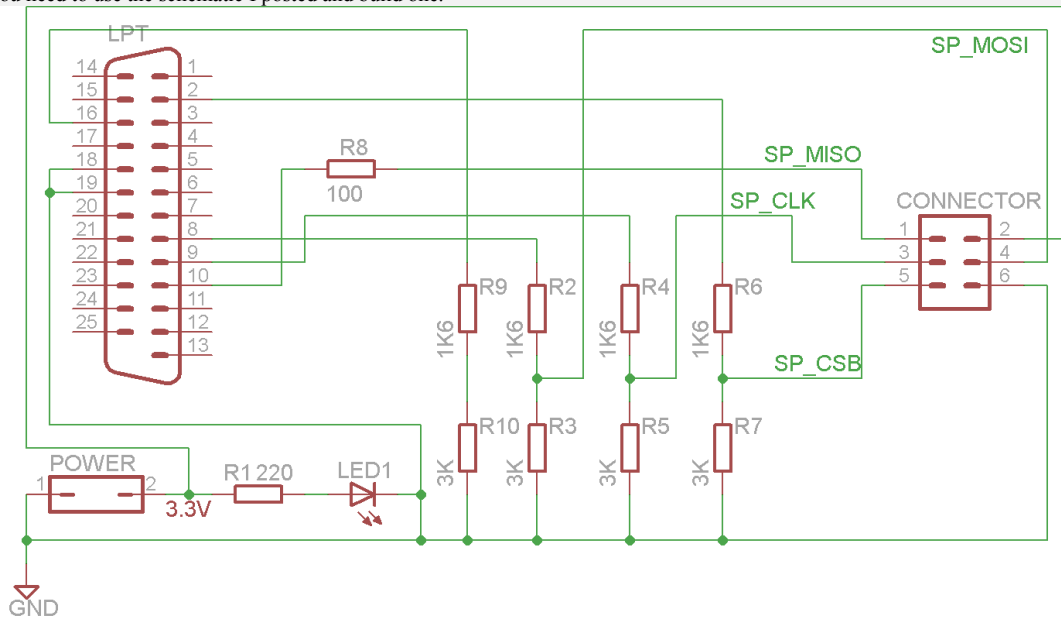
Thanks for the info. So, if I can get myself a SPI adapter, connect those 4 pins, and Bluelab, then I can get going with loading my firmware? Is there a particular version of Bluelab that is required for Bluecore4? Something I don't quite understand: since the firmware is to be loaded into the flash, shouldn't I need to interact with the flash rather than the BT chip?

Bluelab 4.1 supports this chip. Googling for this <http://www.google.com/search?q=bluelab+4.1> shows a promising first link.

You program the flash chip via the CSR chip.

Thanks again. Finally, do you know where I can get a SPI adapter? They don't seem to be commonly available.. maybe I'm searching with the wrong keywords.

You need to use the schematic I posted and build one.



img src: <http://i46.tinypic.com/23h9fs4.jpg>

You can also buy one from CSR but it's very expensive for a few resistors.