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Moving Power In Connector

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[nicksofh](#) 8 posts • Page 1 of 1**Posts:** 27**Joined:** Fri Aug 26, 2011 9:38 am**Moving Power In Connector** • [Quote](#)

Thu Apr 30, 2015 9:05 pm

Hi

I have a need to be able to feed power to a Raspberry Pi 2 from a socket that is on the same end as the USB/network ports.

The intention is to have a custom case with an insulated microUSB socket sitting on the rear side of the PCB beneath the network port, with cables from this new microUSB port soldered onto suitable points on the PCB to supply power to the R-pi.

Looking at the rear of the PCB there are two points directly beneath the microUSB on the rear of the board labled PP2 and PP5 (? poor eyesight) which Im hoping I can solder the additional microUSB power connectors to.

Would somebody advise me if this is a sensible option and if possible point me to schematics or images that would help?



Burngate

Posts: 4960

Joined: Thu Sep 29, 2011 4:34 pm

Location: Berkshire UK

Contact: [Website](#)

Re: Moving Power In Connector • Quote

Fri May 01, 2015 8:30 am

Hardware index : <https://www.raspberrypi.org/documentation/hardware/raspberrypi/README.md> (<https://www.raspberrypi.org/documentation/hardware/raspberrypi/README.md>)

Schematics index : <https://www.raspberrypi.org/documentation/hardware/raspberrypi/schematics/README.md> (<https://www.raspberrypi.org/documentation/hardware/raspberrypi/schematics/README.md>)

Partial B+ schematic : <https://www.raspberrypi.org/documentation/hardware/raspberrypi/schematics/Raspberry-Pi-B-Plus-V1.2-Schematics.pdf> (<https://www.raspberrypi.org/documentation/hardware/raspberrypi/schematics/Raspberry-Pi-B-Plus-V1.2-Schematics.pdf>)

The Pi 2B is similar to the B+

PP2 is connected to the 5v input, and PP5 to ground.

Your idea is certainly possible.

Sensible, however, like beauty, is in the eye of the beholder 😊

nicksof

Posts: 27

Joined: Fri Aug 26, 2011 9:38 am

Re: Moving Power In Connector • Quote

Fri May 01, 2015 9:03 am

Thanks Burngate your reply (looks to me as though it) answered my questions (both technical and philosophical) perfectly.

One more question related to power which would remove the need for me to try and understand the schematics:

Would applying power to PP2 connected to the 5v input, and PP5 to ground, bypass the fuse (F1) ?



Burngate**Posts:** 4960**Joined:** Thu Sep 29, 2011 4:34 pm**Location:** Berkshire UK**Contact:** [Website](#)**Re: Moving Power In Connector** • [Quote](#)

Fri May 01, 2015 9:21 am

I don't know about you, but my eyesight isn't as good as it used to be.

But what I find helps a lot is [http://www.maplin.co.uk/p/22w-fluoresce ... lamp-a29ff](http://www.maplin.co.uk/p/22w-fluoresce...lamp-a29ff) (<http://www.maplin.co.uk/p/22w-fluorescent-daylight-magnifier-lamp-a29ff>)

Using that, it looks like PP2 is before the fuse, so you should be ok.

nicksof**Posts:** 27**Joined:** Fri Aug 26, 2011 9:38 am**Re: Moving Power In Connector** • [Quote](#)

Fri May 01, 2015 9:52 am

Thanks Burngate - that is what I wanted to hear.
Really appreciate your help.

Many thanks.
nick

klricks**Posts:** 4742**Joined:** Sat Jan 12, 2013 3:01 am

Location: Grants Pass, OR, USA

Contact: [Website](#)

Re: Moving Power In Connector Quote

Sun May 03, 2015 1:57 pm

PP1 and PP2 is 5V before the fuse.

PP3 is ground but instead it would be better to connect ground to the solder point at the corners of any of the port shields, USB or RJ45 etc. Doing that is easier and the connection will be more robust.

Go here for my RPi writeup. Basic config, Serial Port add-on etc:

<http://blackeagle12.net/Comp/RPi/Rpi.html> Click contact icon then world icon --->

[nicksoph](#)

Posts: [27](#)

Joined: Fri Aug 26, 2011 9:38 am

Re: Moving Power In Connector Quote

Sun May 03, 2015 9:47 pm

Thanks for the advice klricks - I will do as you suggest.

[nicksoph](#)

Posts: [27](#)

Joined: Fri Aug 26, 2011 9:38 am

Re: Moving Power In Connector Quote

Sat May 16, 2015 10:52 am

Just wanted to report back that this worked and to say thanks to you both.

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