

Note 1:
Official link cables omit pin 1 (VDD) and pin 4 (P14/SD), but unofficial cables usually have all 6 signals with VDD/SD crossed

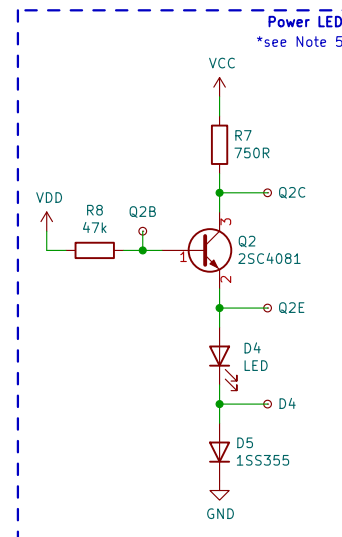
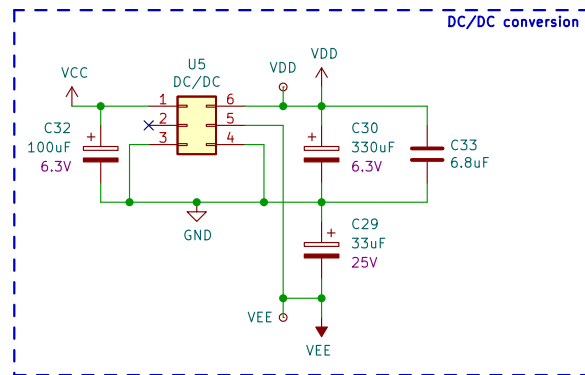
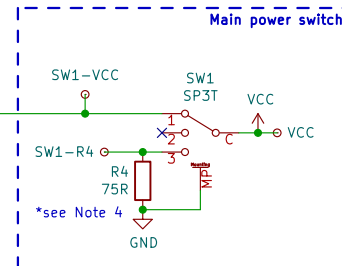
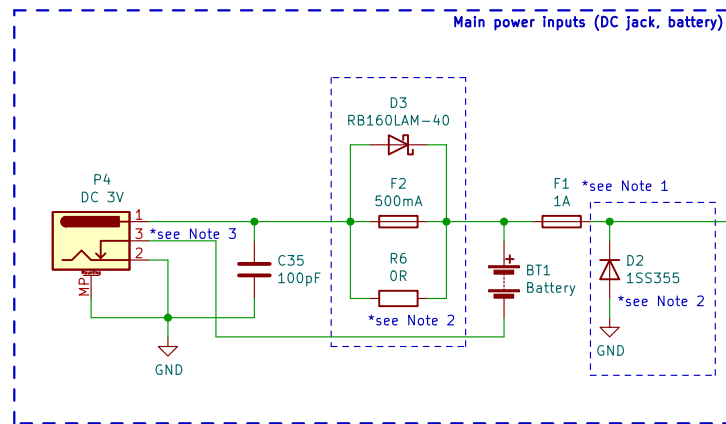
<https://github.com/gekkio/gb-schematics>
<https://gekkio.fi>

Sheet: /Link port/
File: link_port.kicad_sch

Title: MGB-xCPU

Size: A4 Date: 2022-02-20
KiCad E.D.A. kicad 6.0.2-378541a8eb-116-ubuntu21.10.1

Rev: D
Id: 5/6



Global power nets:
VDD = main power supply, nominal +5V (regulated)
VEE = LCD bias supply, nominal -18V (unregulated)
VCC = DC input supply (battery or DC jack), nominal +3V
GND = common ground

Note 1:
F1 is 600mA on earlier boards

Note 2:
D3/F2/R6 share the same footprint, and the actual device can be only one of them
D2 is also optional and not used in all cases.
Known combinations:
1) only D2 populated, no D3/F2/R6
2) D2 + R6 populated
3) D2 + F2 populated
4) only D3 populated, no D2

Note 3:
Pins 2 (GND) and 3 (BT-) are normally connected, and inserting a DC plug disconnects GND from BT-

Note 4:
R4 provides a discharge path from VCC to GND when the power switch is in the off position

Note 5:
Power LED circuit is not present on early MGB-CPU-01 boards

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Sheet: /Power/

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