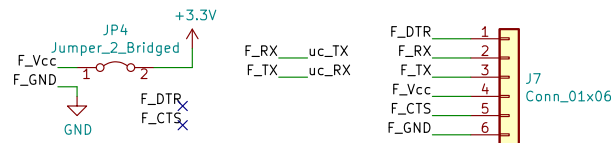
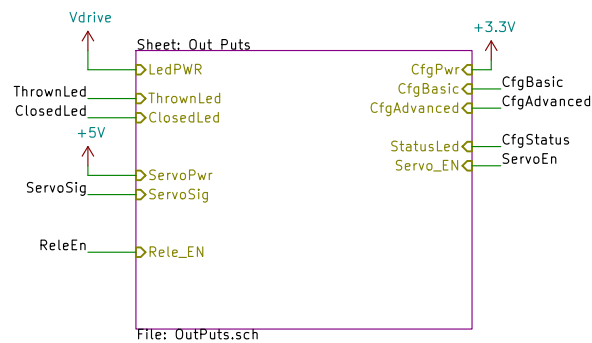
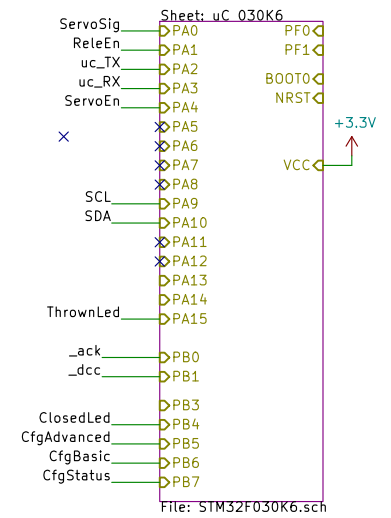
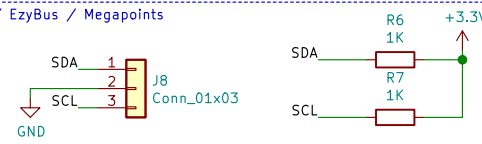


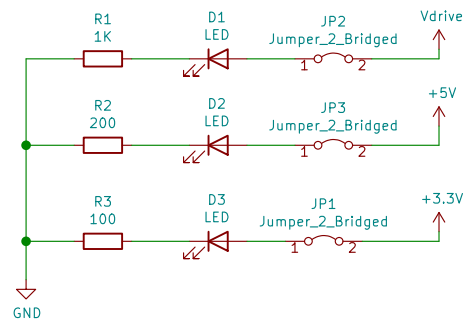
FTDI_ UART



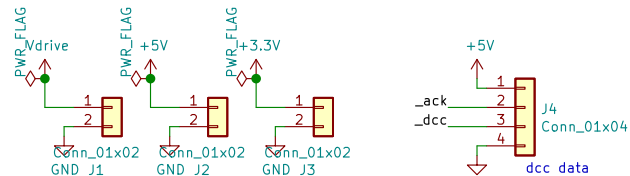
I2C / EzyBus / Megapoints



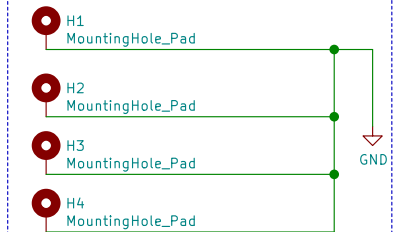
Status Leds



Inputs



Mount Holes micro



Sheet: /
File: DccDecoder.sch

Title:

Size: A4

Date:

KiCad E.D.A. eeschema 5.1.10-88a1d61d5890ubuntu21.04.1

Rev:

Id: 1/3

Led Resistance Calc for 15ma and 2.5V led:

12 V -> 9.5/15*1000 -> 633 Ohm
14 V -> 11.5/15*1000 -> 766 Ohm
20 V -> 17.5/15*1000 -> 1166 Ohm

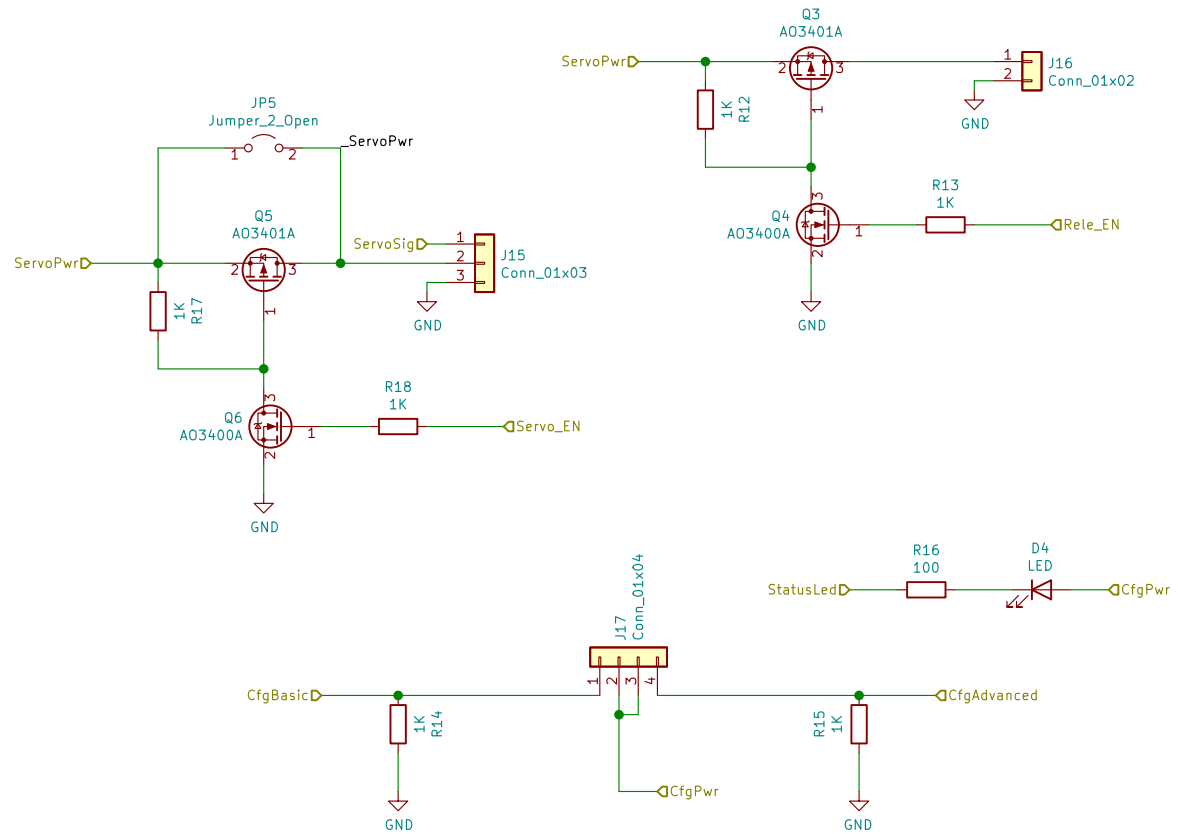
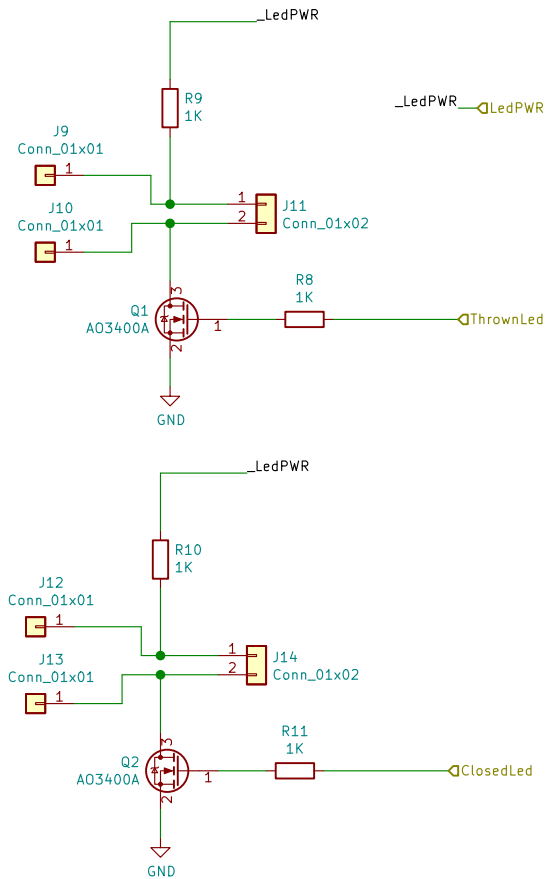
Using a 1K resistor:

In \ Led: 2V 2.5V 3V
12V 10ma 9.5ma 9ma
14V 12ma 11.5ma 11ma
20V 18ma 17.5ma 17ma

Expected case:
12V input, & 2.5V led -> near 10 mAmps, ligh ok

WorstCases:
12V input, & 3V led -> 9 mAmps, Acceptable
20V input, & 2V led -> 18 mAmps, under <20ma specs

Future: add a 1K trimmer with 500 Ohm in series



Sheet: /Out Puts/
File: OutPuts.sch

Title:

Size: A4

Date:

KiCad E.D.A. eeschema 5.1.10-88a1d61d5890ubuntu21.04.1

Rev:

Id: 2/3

