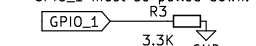
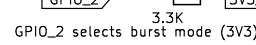


- H1 MountingHole
- H2 MountingHole
- H3 MountingHole

GPIO_1 must be pulled down.



GPIO_2 selects burst mode (3V3)



| | | | | |
|----------|---------------|---------|----------|---------------------|
| Atmel | AT26DF161-SU | 100 MHz | 16-Mbits | Not for new designs |
| Atmel | AT26DF161A-SU | 70 MHz | 16-Mbits | |
| Numonyx | M25P80-VMW6TP | 75 MHz | 8-Mbits | |
| Numonyx | M25P16-VMW6TP | 75MHz | 16-Mbits | |
| Macronix | MX25L8005 | 70 MHz | 8-Mbits | |
| Macronix | MX25L1605 | 86 MHz | 16-Mbits | |

controller



File: controller.kicad_sch

outputdrivers



File: outputdrivers.kicad_sch

spareArea



File: spareArea.kicad_sch

powersupply

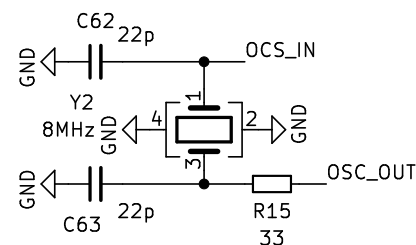
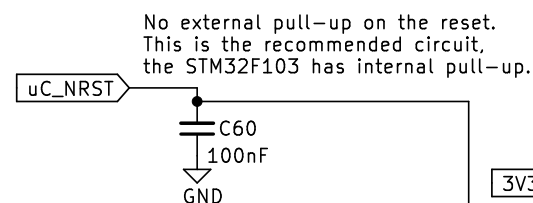
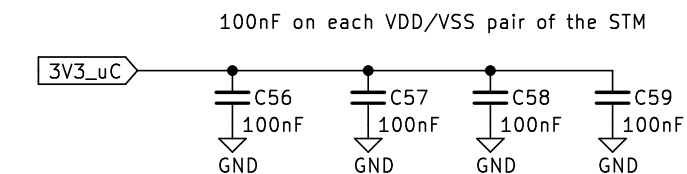


File: powersupply.kicad_sch

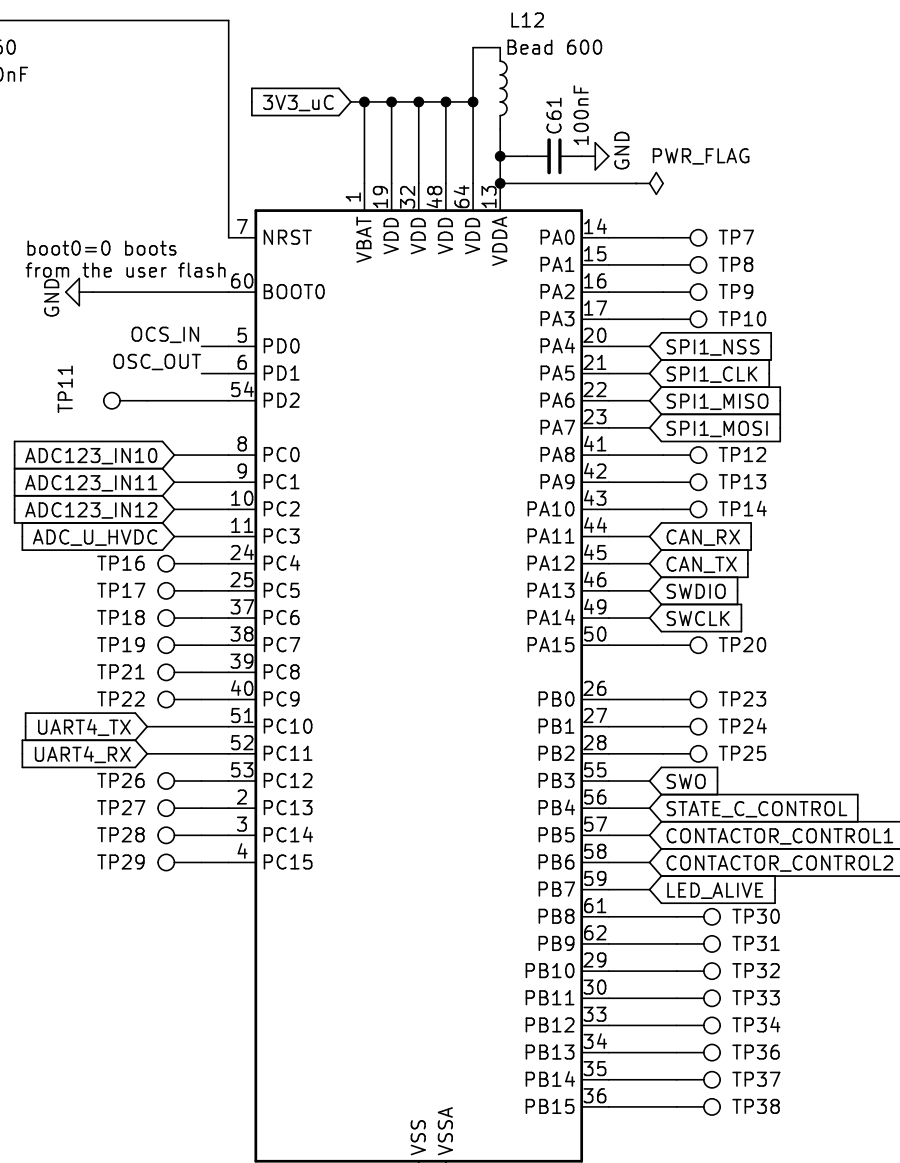
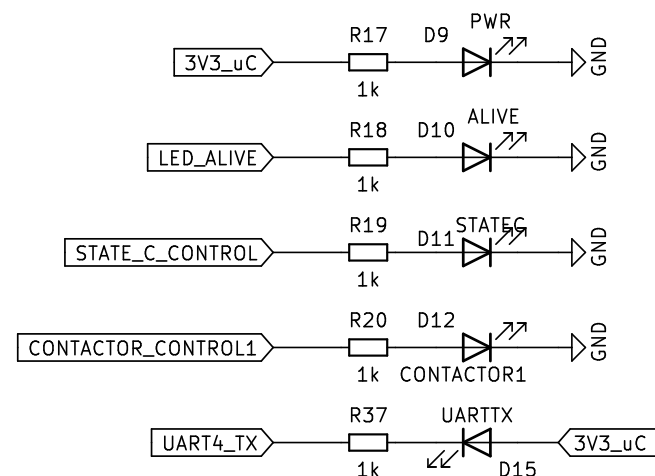
inputs



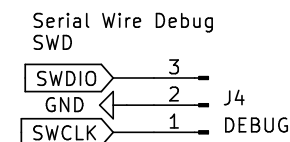
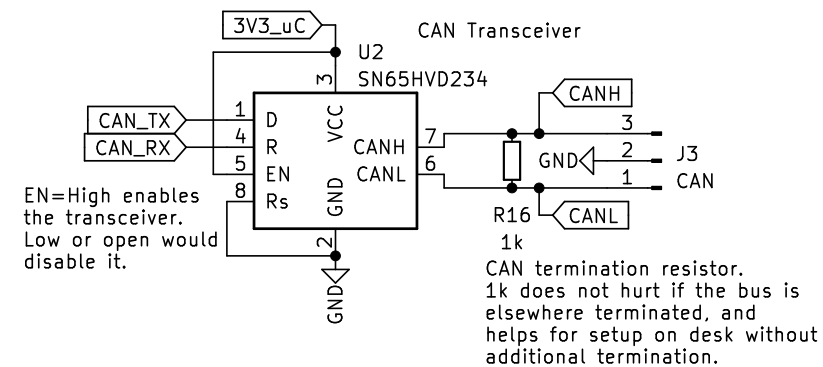
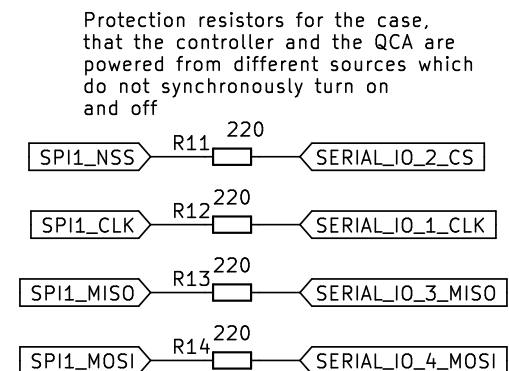
File: inputs.kicad_sch



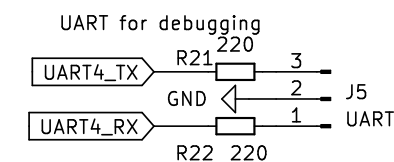
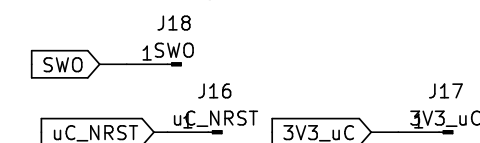
Todo: XTAL frequency, footprint, Cs

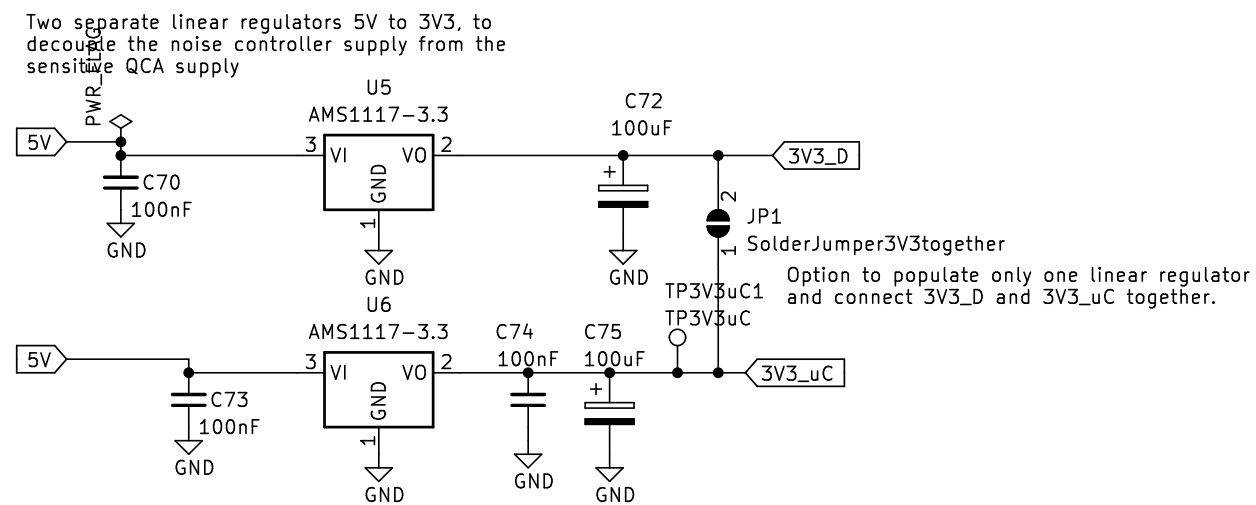
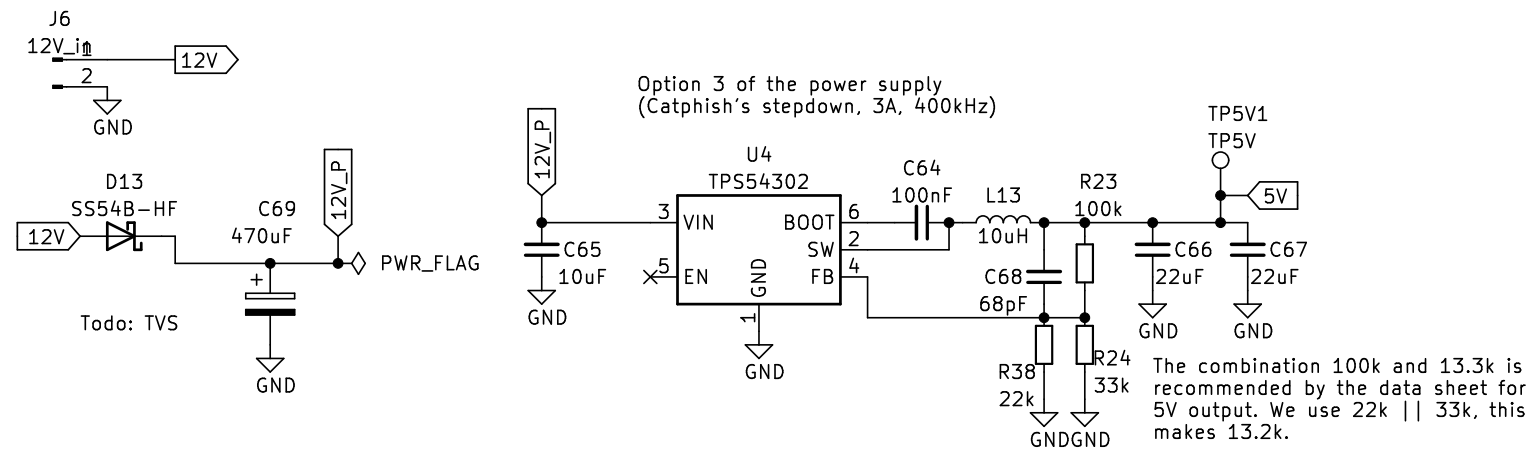


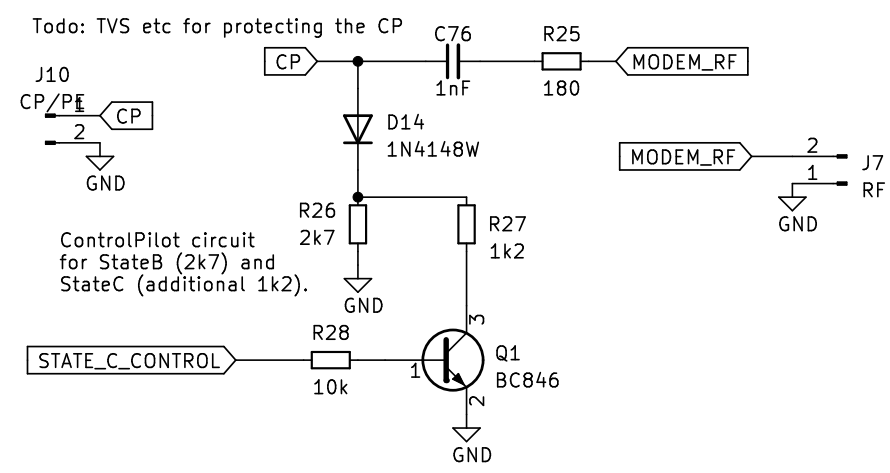
There are more VSS pins (31, 47, 63)
which are not shown here. Strange.
Nevertheless, in the layout they are correct.



The SWO can be used for tracing.
<http://stefanfrings.de/stm32/stm32f1.html#traceswo>

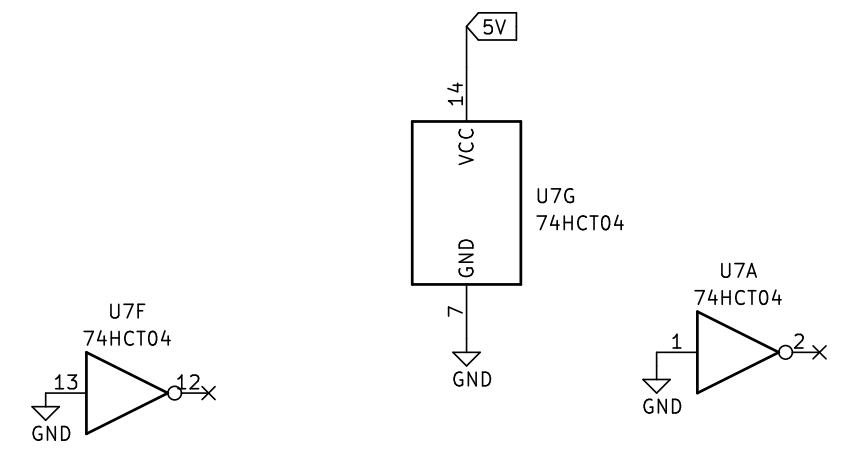
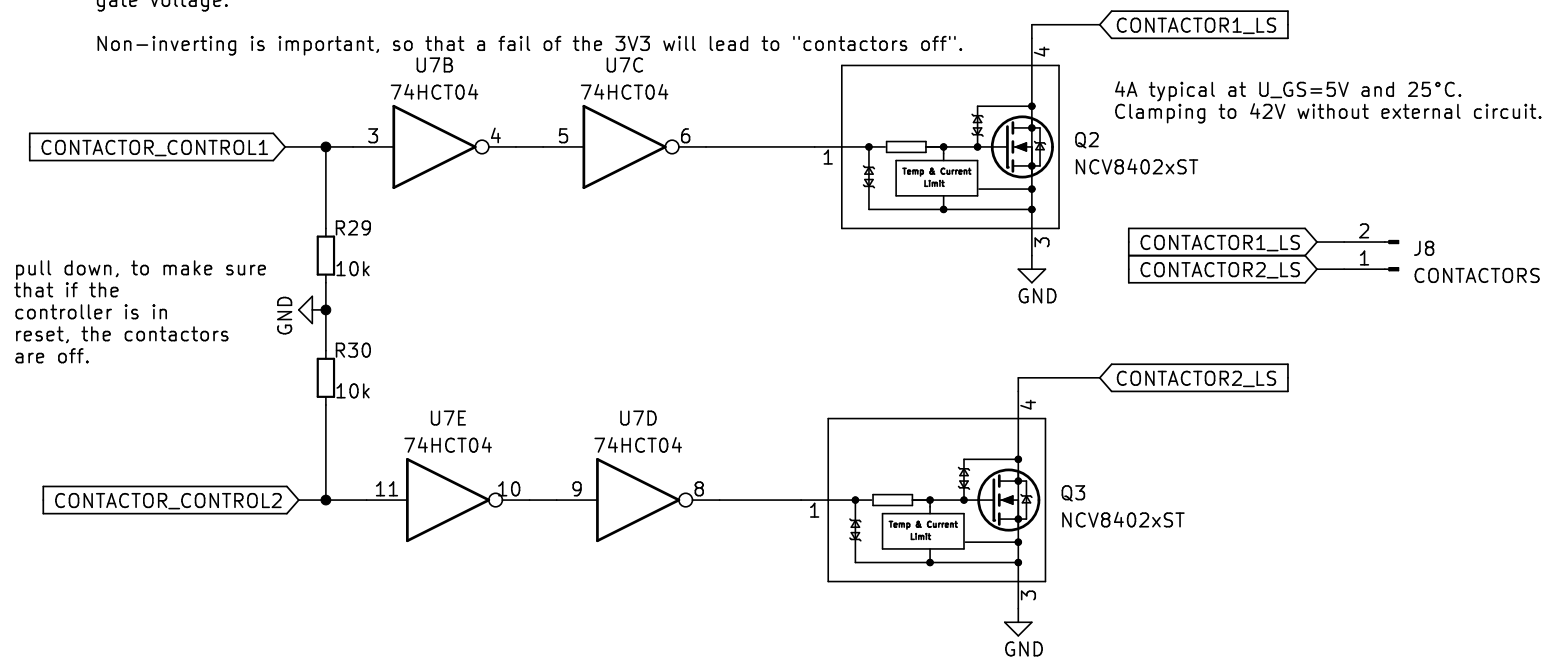




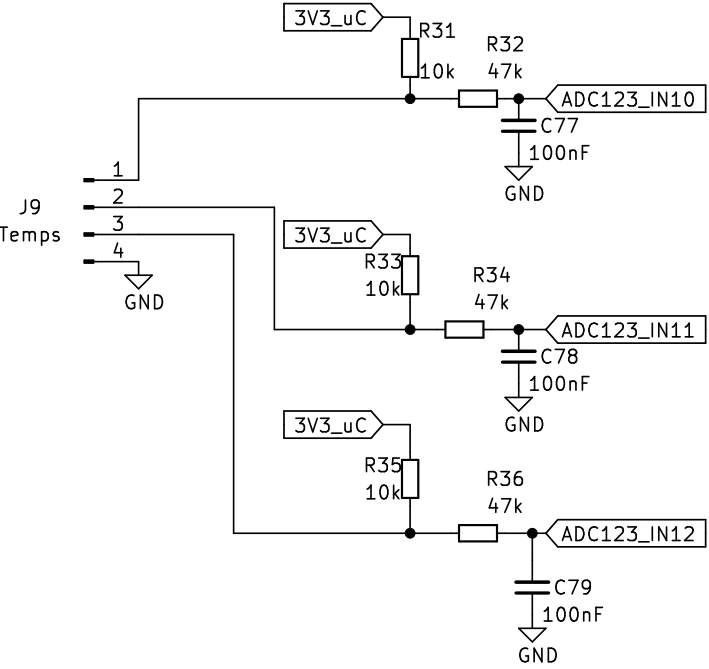


HCT as level shifter from 3.3V to 5V, because the NCV needs at least 5V gate voltage.

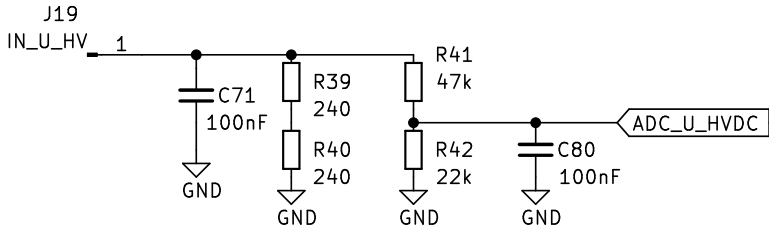
Non-inverting is important, so that a fail of the 3V3 will lead to "contactors off".



Analog inputs, e.g. for use with NTCs to ground
for temperature measurement
or analog feedback contacts or switches.



Current input for HV DC voltage
measurement as done in LIM, see
<https://openinverter.org/forum/viewtopic.php?p=58839#p58839>



| J12 | J13 | J14 | J15 |
|-------|-------|-------|-------|
| spare | spare | spare | spare |
| 2 | 2 | 2 | 2 |
| 3 | 3 | 3 | 3 |
| 4 | 4 | 4 | 4 |
| 5 | 5 | 5 | 5 |
| 6 | 6 | 6 | 6 |