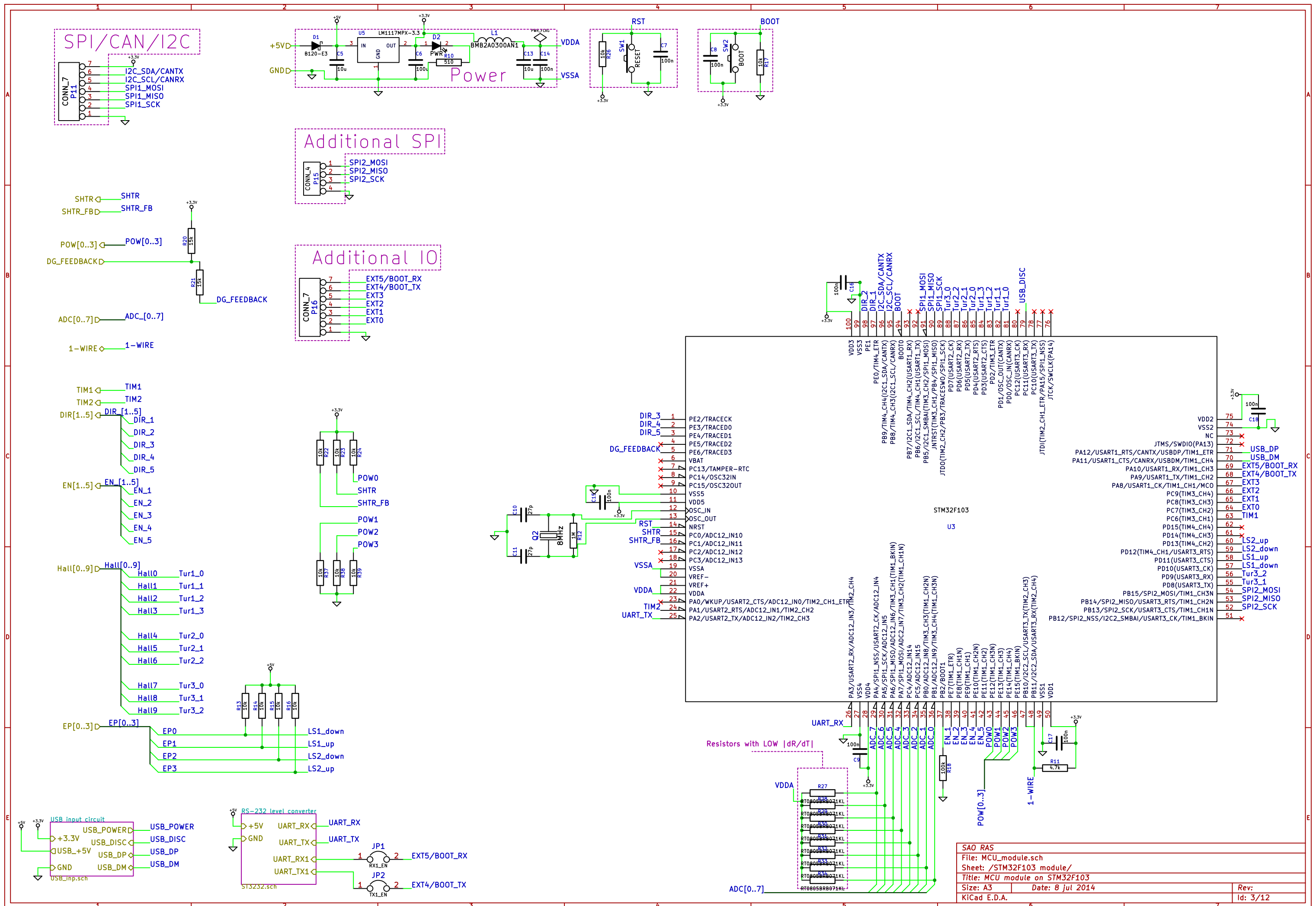
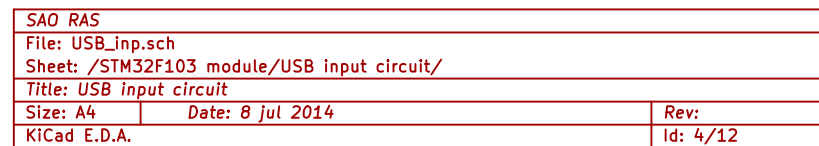
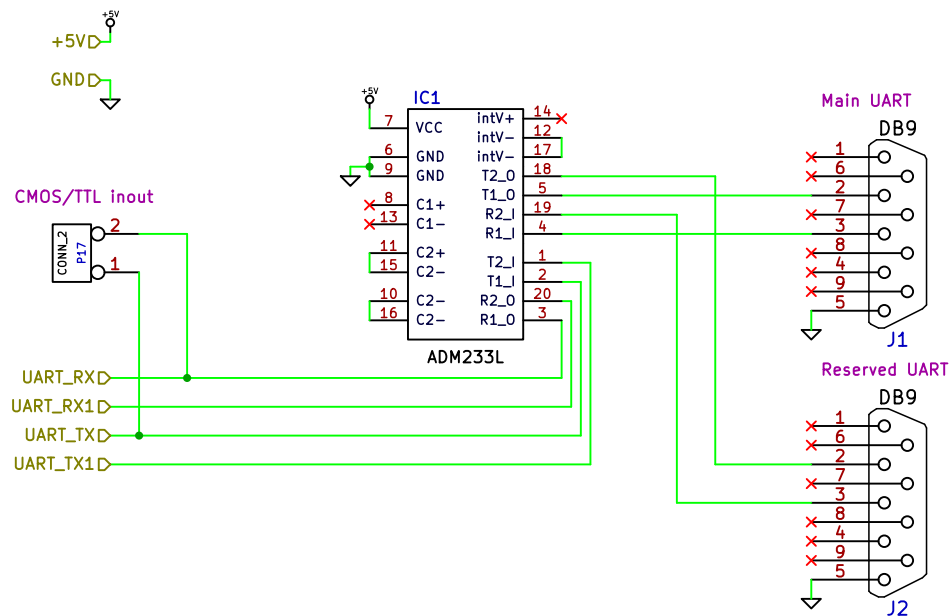


SAO RAS		
File: motors.sch		
Sheet: /Turret slits/		
Title: Stepper motor module		
Size: A4	Date: 8 jul 2014	Rev:
KiCad E.D.A.		Id: 2/12



SAO RAS		
File: MCU_module.sch		
Sheet: /STM32F103 module/		
Title: MCU module on STM32F103		
Size: A3	Date: 8 jul 2014	Rev:
KiCad E.D.A.		Id: 3/12

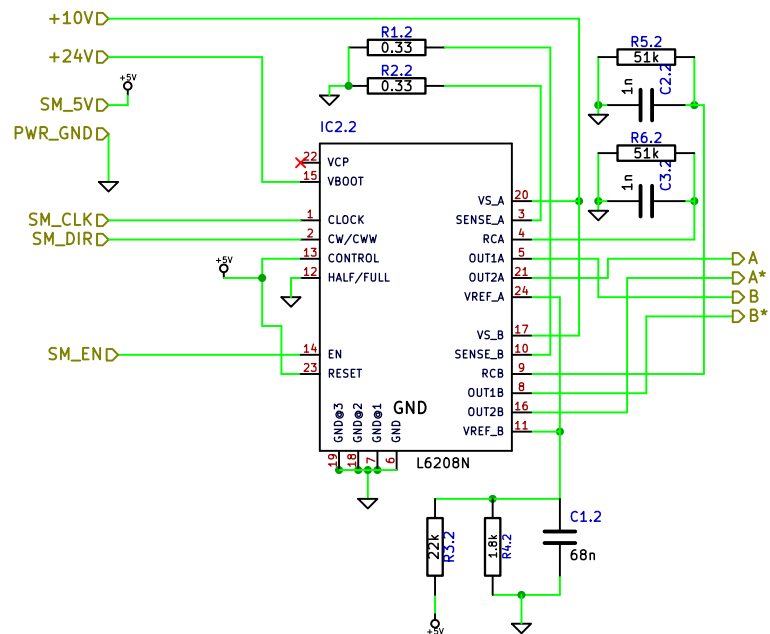




DB9 pinout:

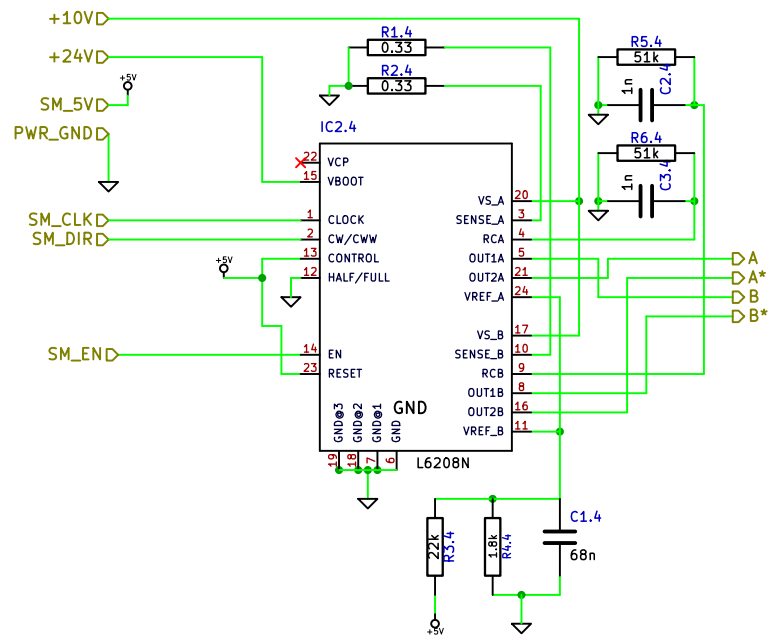
- 1 - Data carrier detect
- 2 - Receive data
- 3 - Transmit data
- 4 - Data terminal ready
- 5 - Signal ground
- 6 - Data set ready
- 7 - Request to send
- 8 - Clear to send
- 9 - Ring indicator

SAO RAS		
File: ST3232.sch		
Sheet: /STM32F103 module/RS-232 level converter/		
Title: RS-232 level converter		
Size: A4	Date: 8 jul 2014	Rev:
KiCad E.D.A.		Id: 5/12



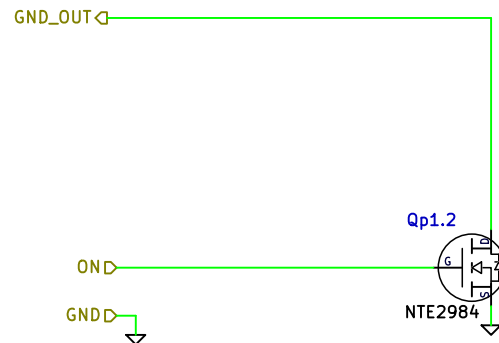
SAO RAS		
File: motors.sch		
Sheet: /Filters slit #1/		
Title: Stepper motor module		
Size: A4	Date: 8 jul 2014	Rev:
KiCad E.D.A.		Id: 6/12



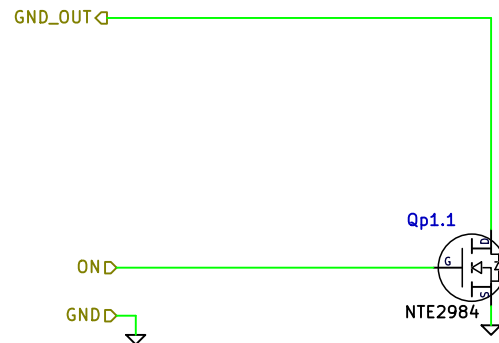


SAO RAS		
File: motors.sch		
Sheet: /Long stage/		
Title: Stepper motor module		
Size: A4	Date: 8 jul 2014	Rev:
KiCad E.D.A.		Id: 8/12

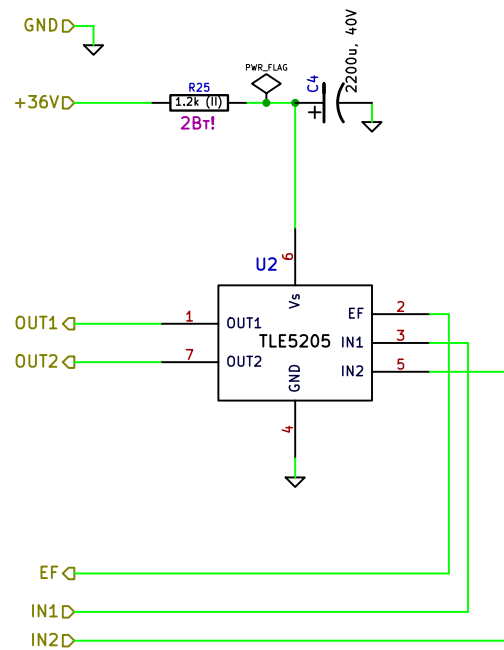




SAO RAS		
File: power_MOSFET.sch		
Sheet: /Power MOSFET module 1/		
Title: Power load module		
Size: A4	Date: 8 jul 2014	Rev:
KiCad E.D.A.		Id: 10/12



SAO RAS		
File: power_MOSFET.sch		
Sheet: /Power MOSFET module 2/		
Title: Power load module		
Size: A4	Date: 8 jul 2014	Rev:
KiCad E.D.A.		Id: 11/12



SAO_RAS		
File: Shutter_MOSFET.sch		
Sheet: /Shutter MOSFET/		
Title: Power load module		
Size: A4	Date: 8 jul 2014	Rev:
KiCad E.D.A.		Id: 12/12