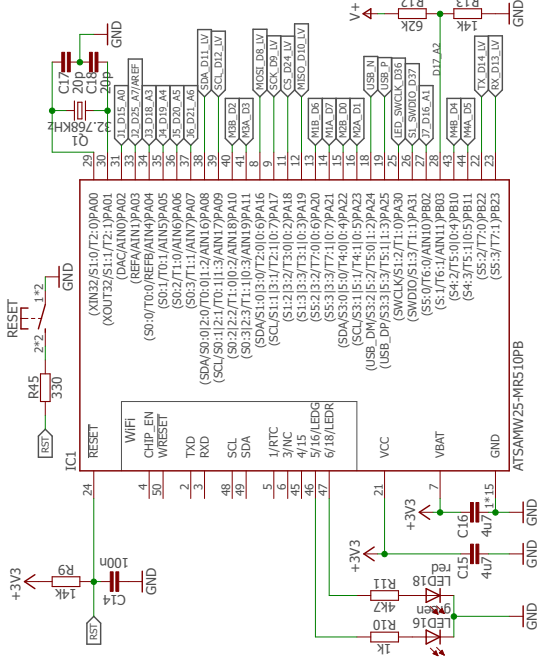


Microcontroller

Microchip SAMU25 (SAMD21 ARM Cortex-M0+ MCU + HINCL600 HiFi SoC)

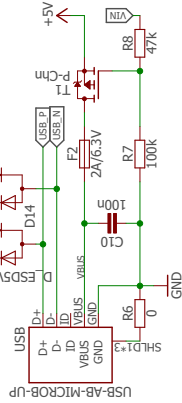


Test Points

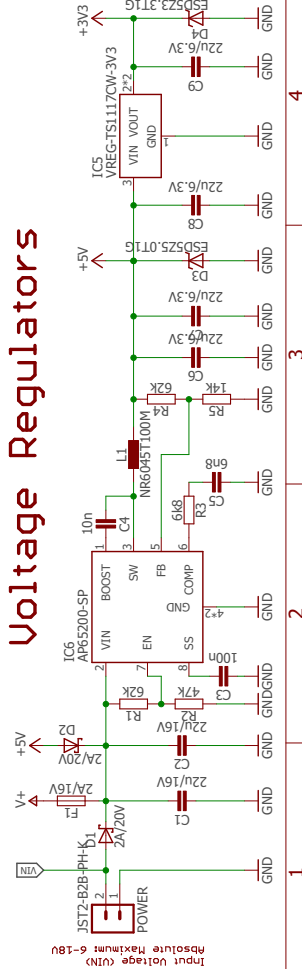


USB

USB Device

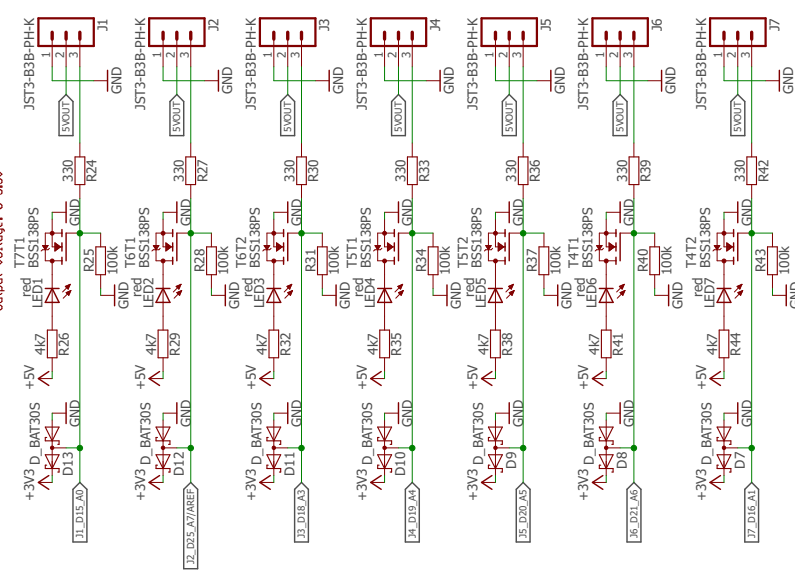


Voltage Regulators

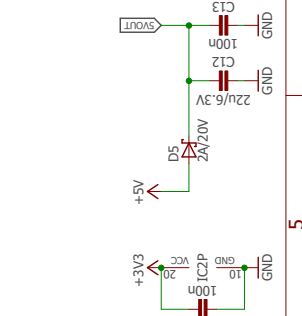
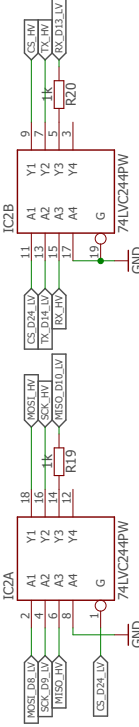


Inputs/Outputs J1....J7

Input Voltage: 0-5V
Output Voltage: 0-3.3V

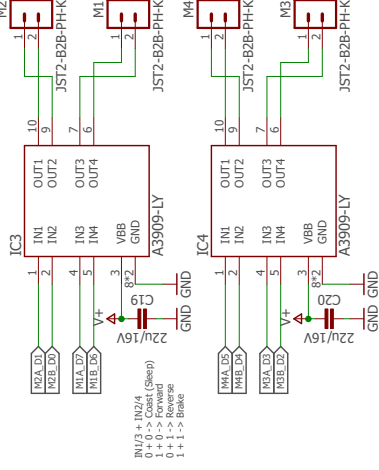


Level Shifter

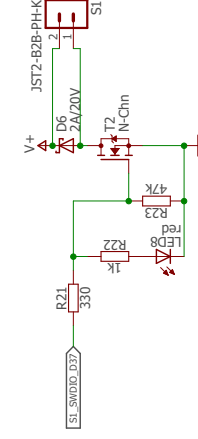


Motor M1....M4

Atlegro microSystems A3969

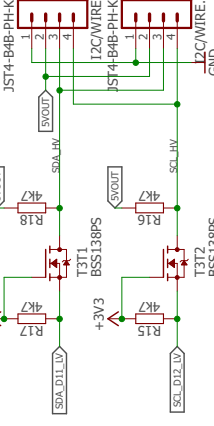


MosFet S1



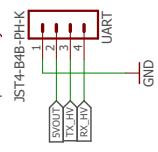
I2C/Wire

Input/Output Voltage: 0-5V



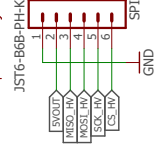
UART

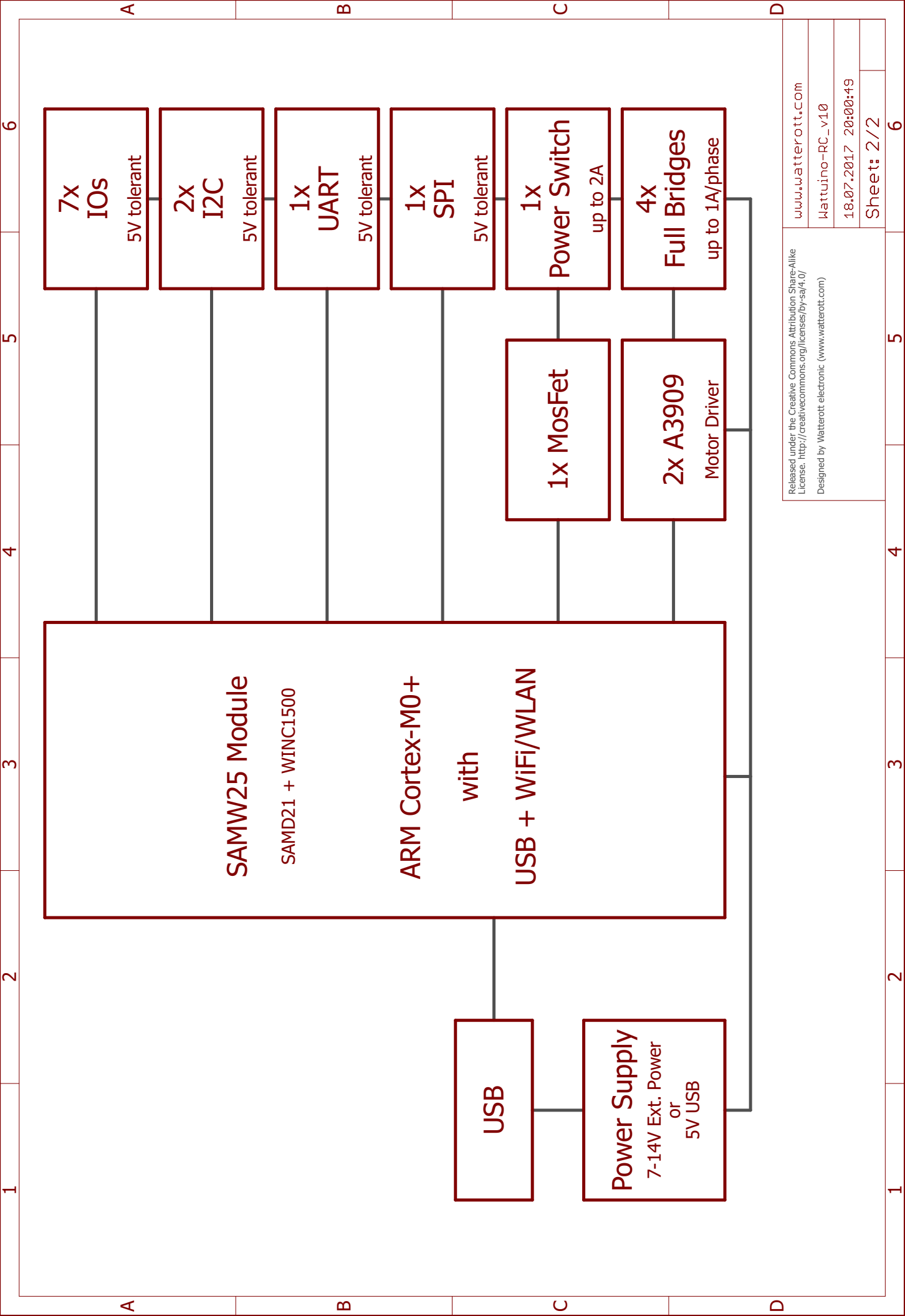
Input Voltage: 0-5V
Output Voltage: 0-3.3V

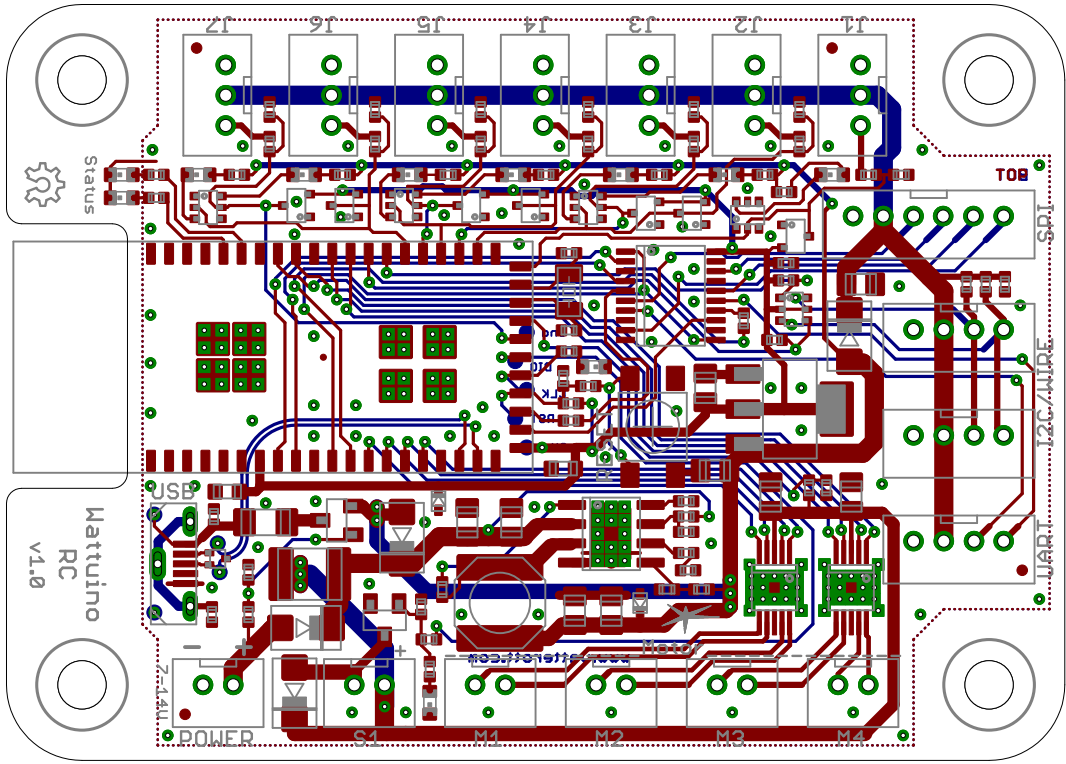


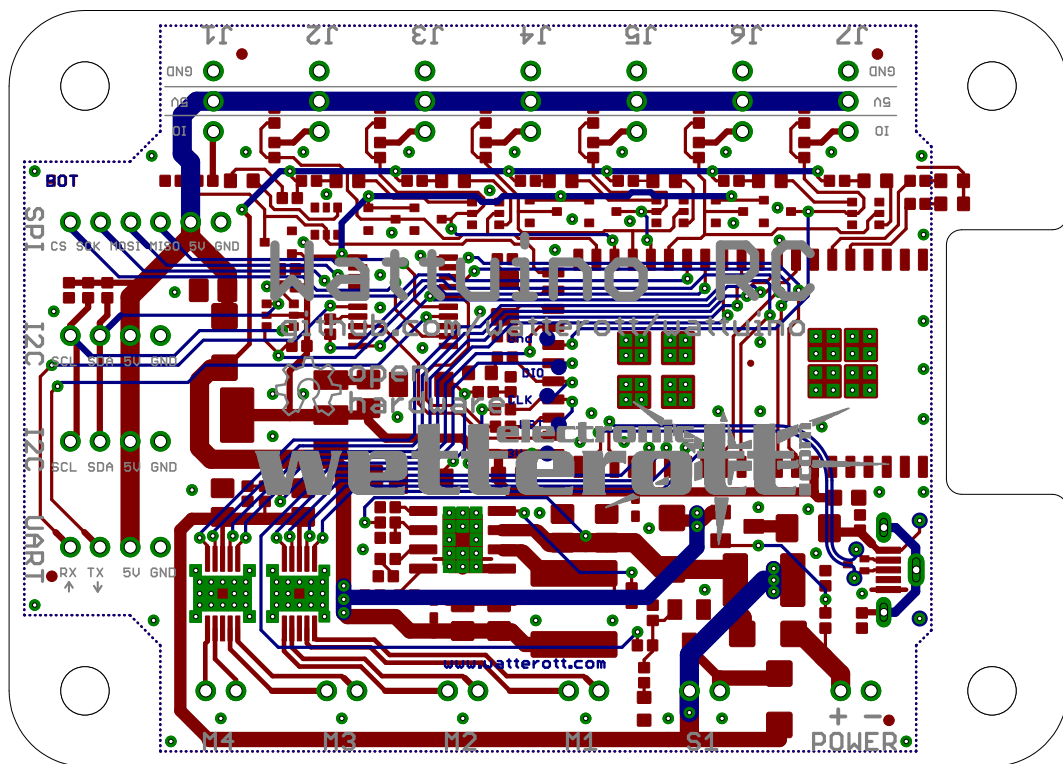
SPI

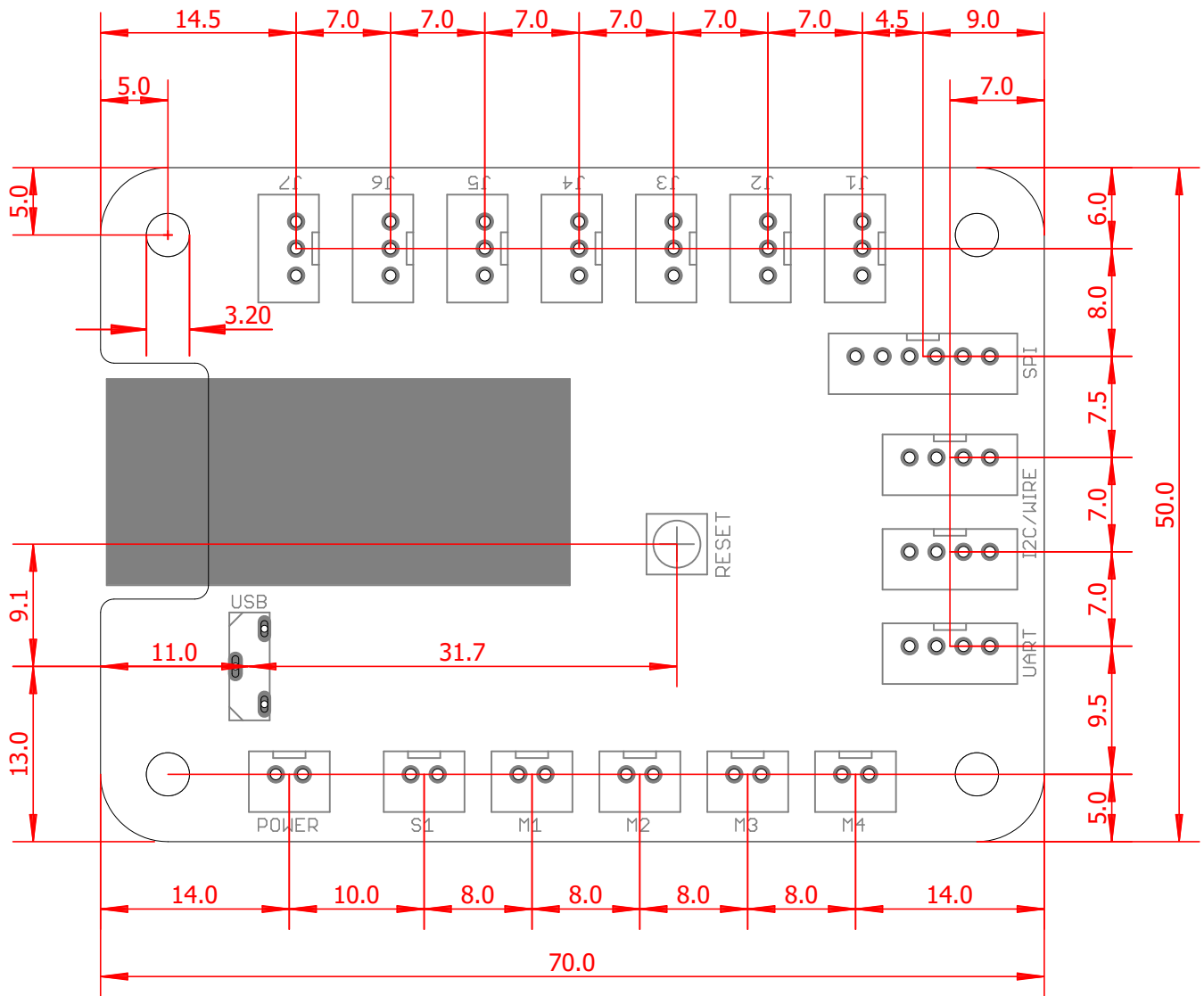
Input Voltage: 0-5V
Output Voltage: 0-3.3V



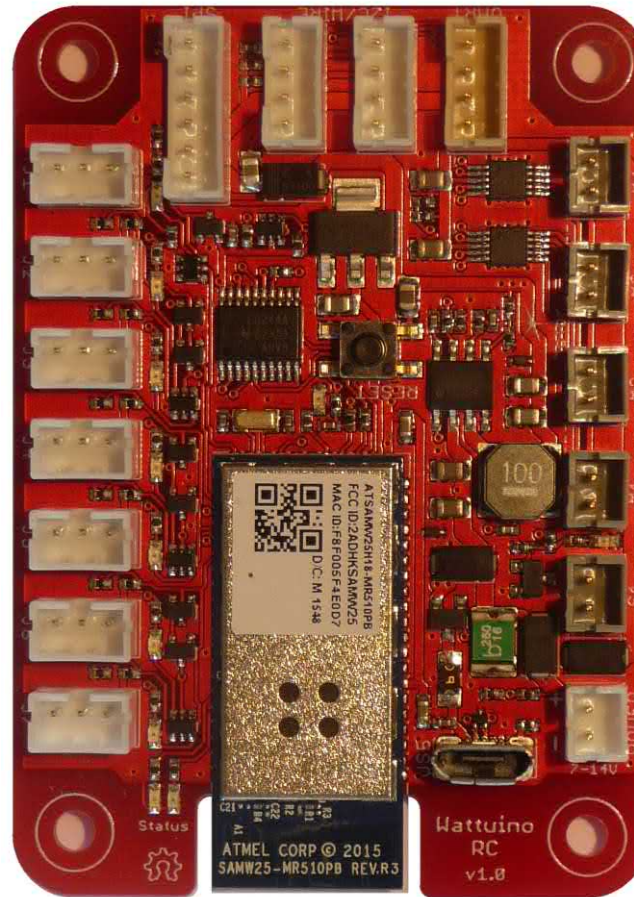
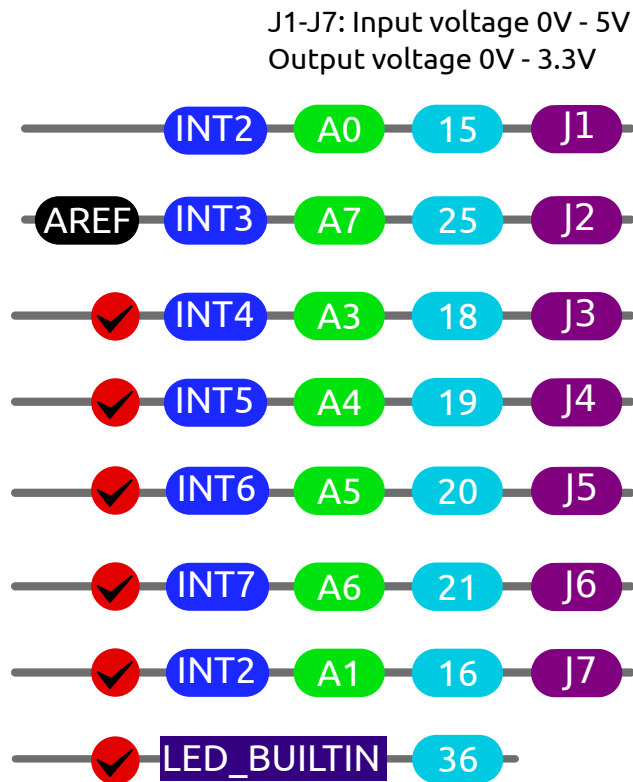
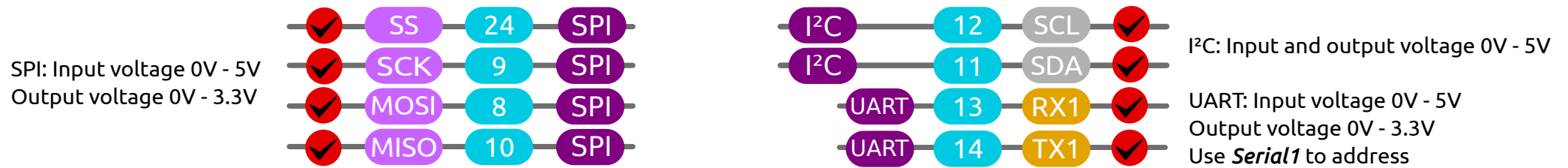








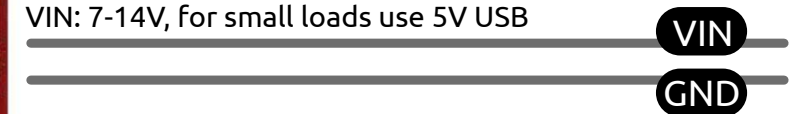
Wattuino RC Roboter Controller - ATSAMW25 = SAMD21 + WINC1500



M1-M4, S1: output only, 0V - VIN, max 1A per phase

M4	5	4	10 = forward
M3	3	2	01 = reverse
M2	1	0	00 = coast
M1	7	6	11 = brake
S1	37	max 2A	

VIN: 7-14V, for small loads use 5V USB



Use *Serial* to address USB serial

DIGITAL ANALOG POWER SERIAL SPI I²C PWM INTERRUPT