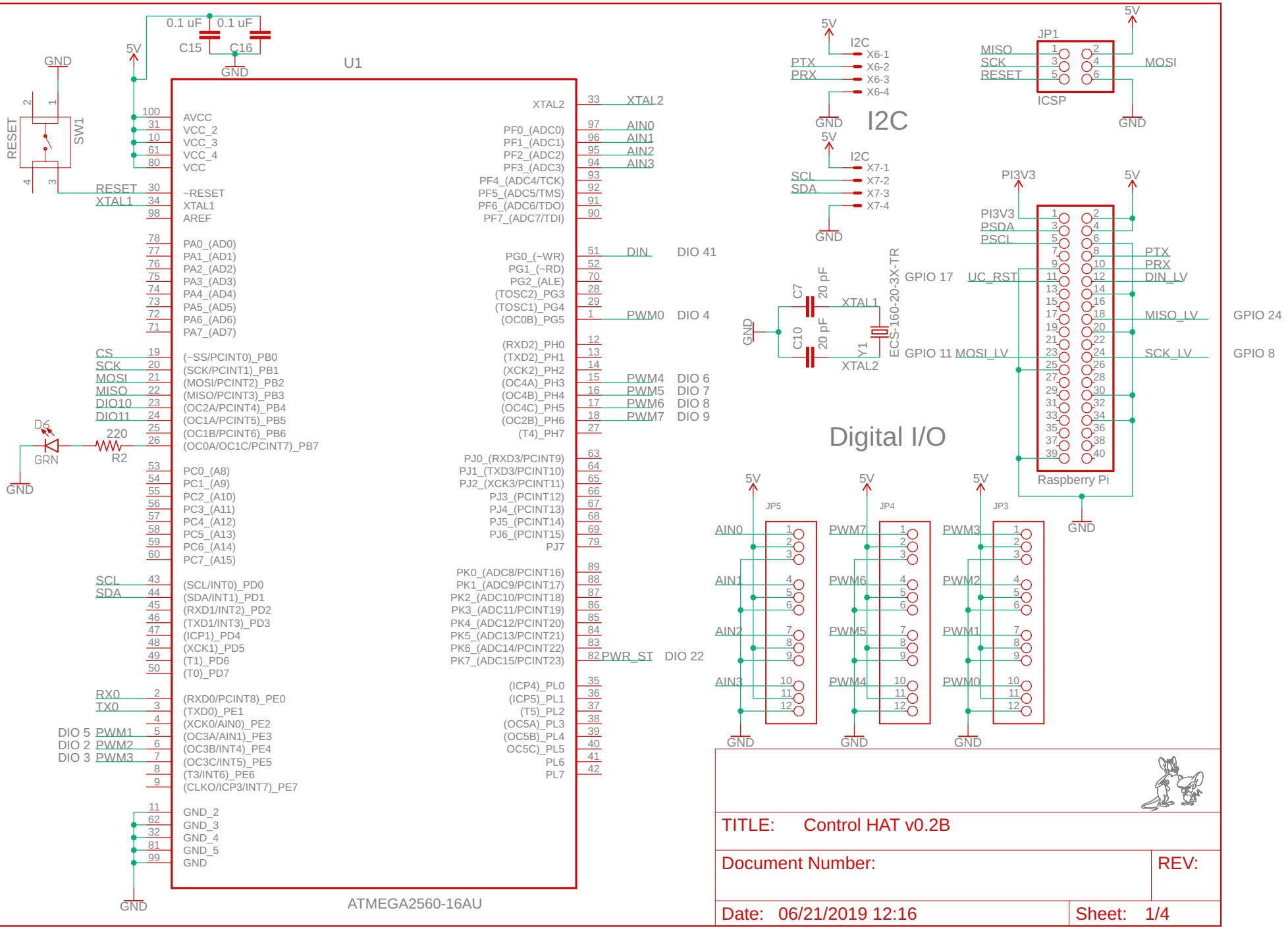
0.1 uF
0.1 uF
C15
C16
GND
5V
U1
RESET
SW1
RESET
XTAL1
AVCC
VCC_2
VCC_3
VCC_4
VCC
~RESET
XTAL1
AREF
PA0_(AD0)
PA1_(AD1)
PA2_(AD2)
PA3_(AD3)
PA4_(AD4)
PA5_(AD5)
PA6_(AD6)
PA7_(AD7)
CS
SCK
MOSI
MISO
DIO10
DIO11
(~SS/PCINT0)_PB0
(SCK/PCINT1)_PB1
(MOSI/PCINT2)_PB2
(MISO/PCINT3)_PB3
(OC2A/PCINT4)_PB4
(OC1A/PCINT5)_PB5
(OC1B/PCINT6)_PB6
(OC0A/OC1C/PCINT7)_PB7
D6
GRN
220
R2
PC0_(A8)
PC1_(A9)
PC2_(A10)
PC3_(A11)
PC4_(A12)
PC5_(A13)
PC6_(A14)
PC7_(A15)
SCL
SDA
(SCL/INT0)_PD0
(SDA/INT1)_PD1
(RXD1/INT2)_PD2
(TXD1/INT3)_PD3
(ICP1)_PD4
(XCK1)_PD5
(T1)_PD6
(T0)_PD7
RX0
TX0
DIO 5 PWM1
DIO 2 PWM2
DIO 3 PWM3
(RXD0/PCINT8)_PE0
(TXD0)_PE1
(XCK0/AIN0)_PE2
(OC3A/AIN1)_PE3
(OC3B/INT4)_PE4
(OC3C/INT5)_PE5
(T3/INT6)_PE6
(CLKO/ICP3/INT7)_PE7
GND_2
GND_3
GND_4
GND_5
GND
XTAL2
PF0_(ADC0)
PF1_(ADC1)
PF2_(ADC2)
PF3_(ADC3)
PF4_(ADC4/TCK)
PF5_(ADC5/TMS)
PF6_(ADC6/TDO)
PF7_(ADC7/TDI)
PG0_(~WR)
PG1_(~RD)
PG2_(ALE)
(TOSC2)_PG3
(TOSC1)_PG4
(OC0B)_PG5
(RXD2)_PH0
(TXD2)_PH1
(XCK2)_PH2
(OC4A)_PH3
(OC4B)_PH4
(OC4C)_PH5
(OC2B)_PH6
(T4)_PH7
PJ0_(RXD3/PCINT9)
PJ1_(TXD3/PCINT10)
PJ2_(XCK3/PCINT11)
PJ3_(PCINT12)
PJ4_(PCINT13)
PJ5_(PCINT14)
PJ6_(PCINT15)
PJ7
PK0_(ADC8/PCINT16)
PK1_(ADC9/PCINT17)
PK2_(ADC10/PCINT18)
PK3_(ADC11/PCINT19)
PK4_(ADC12/PCINT20)
PK5_(ADC13/PCINT21)
PK6_(ADC14/PCINT22)
PK7_(ADC15/PCINT23)
(ICP4)_PL0
(ICP5)_PL1
(T5)_PL2
(OC5A)_PL3
(OC5B)_PL4
OC5C)_PL5
PL6
PL7
XTAL2
AIN0
AIN1
AIN2
AIN3
DIN
DIO 41
PWM0
DIO 4
PWM4
DIO 6
PWM5
DIO 7
PWM6
DIO 8
PWM7
DIO 9
PWR_ST
DIO 22
ATMEGA2560-16AU
I2C
X6-1
X6-2
X6-3
X6-4
PTX
PRX
I2C
X7-1
X7-2
X7-3
X7-4
SCL
SDA
C7
20 pF
C10
20 pF
XTAL1
XTAL2
Y1
ECS-160-20-3X-TR
GPIO 17
UC_RST
GPIO 11 MOSI_LV
JP1
MISO
SCK
RESET
MOSI
ICSP
PI3V3
PSDA
PSCL
PTX
PRX
DIN_LV
MISO_LV
SCK_LV
GPIO 24
GPIO 8
Raspberry Pi
Digital I/O
JP5
JP4
JP3
AIN0
AIN1
AIN2
AIN3
PWM7
PWM6
PWM5
PWM4
PWM3
PWM2
PWM1
PWM0
TITLE: Control HAT v0.2B
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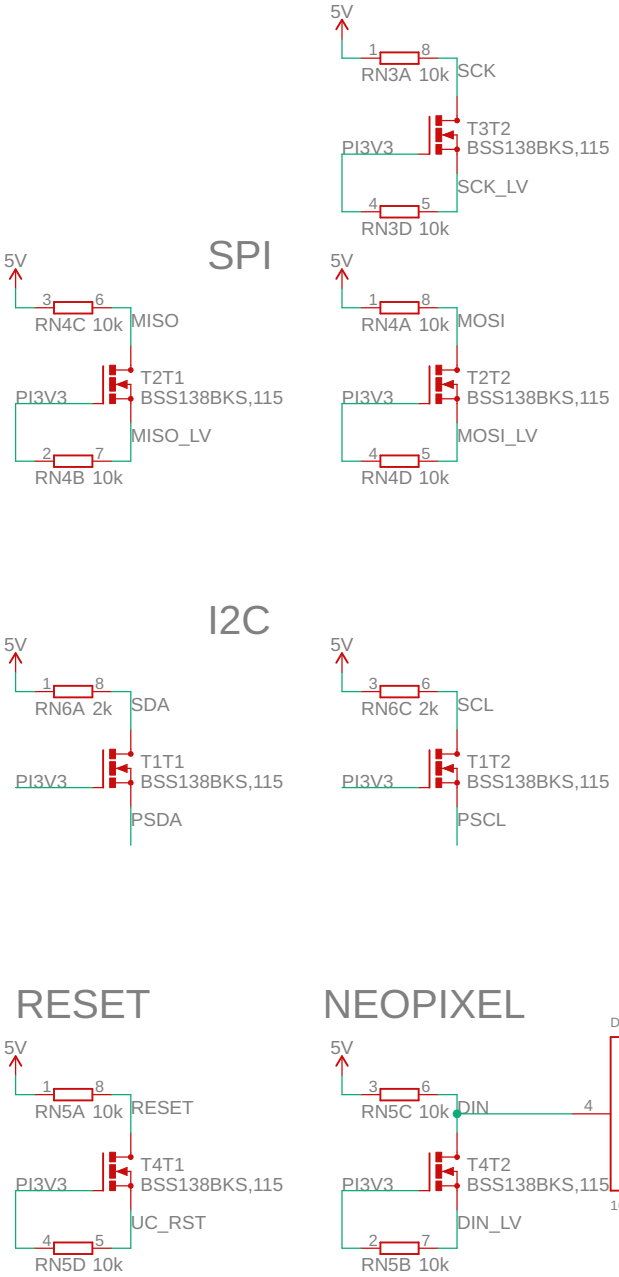
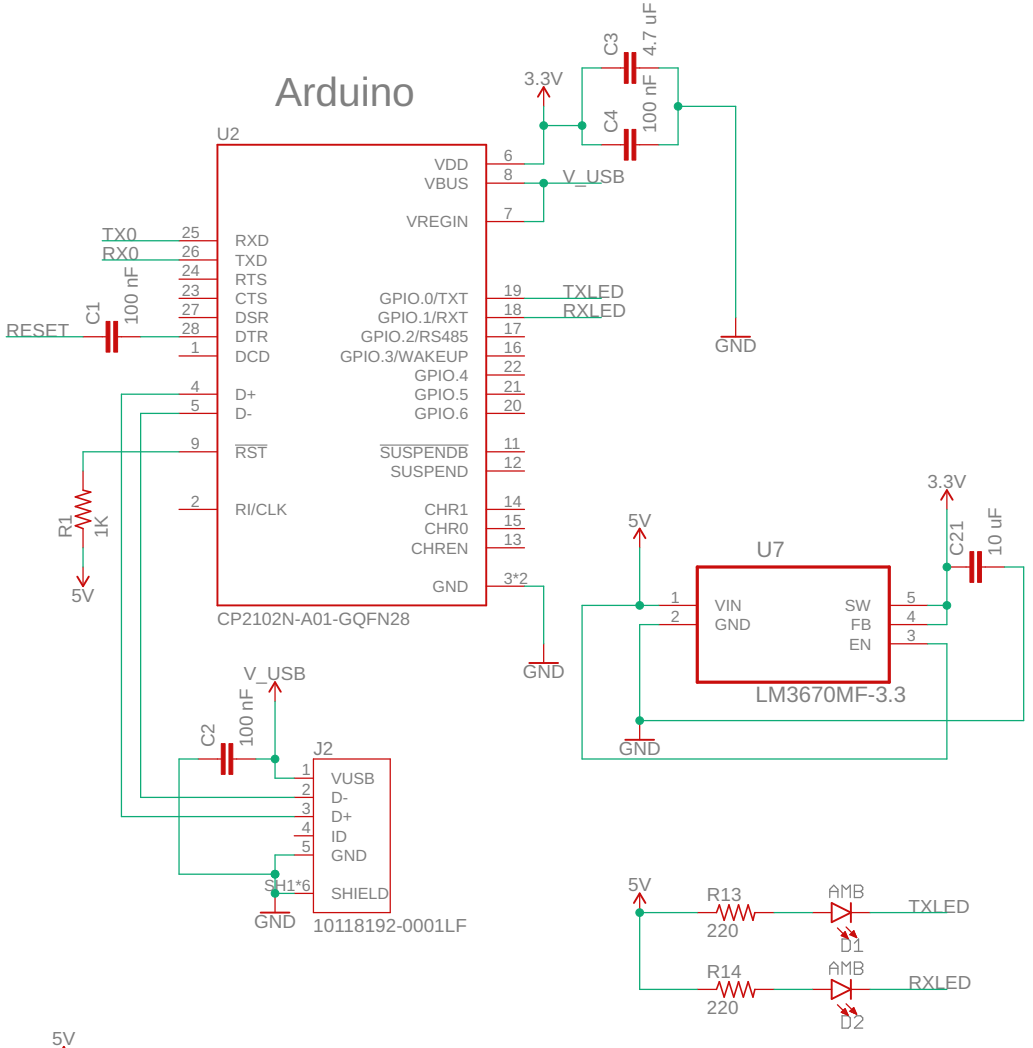
Logic Level Converters



USB-Serial Converters



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Document Number:		REV:
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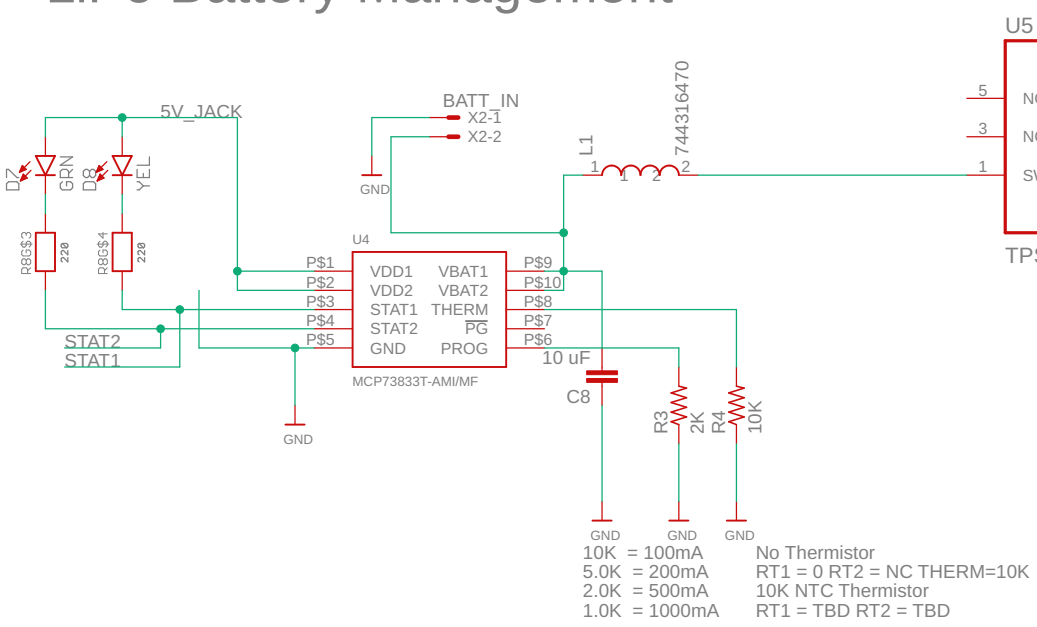
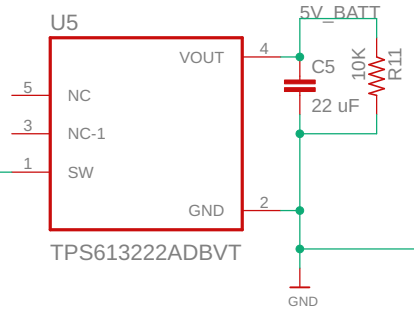
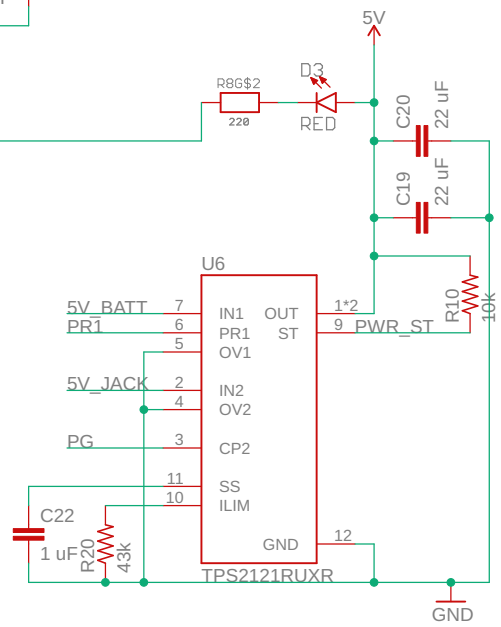
LiPo Battery Management

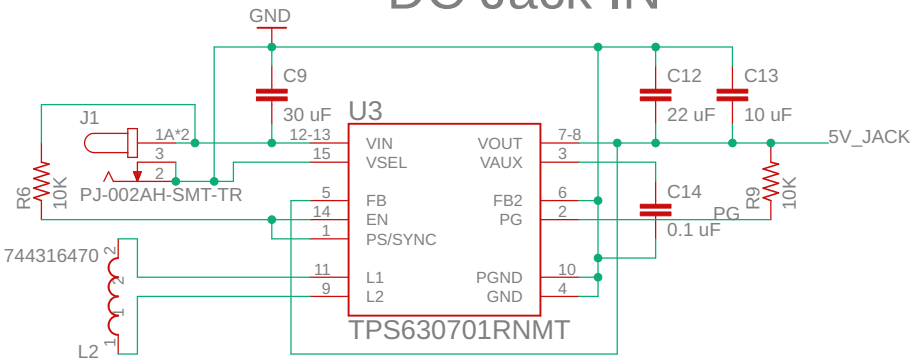


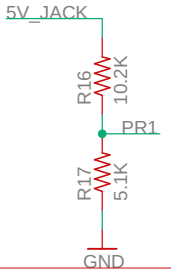


Automatic Power Switch



DC Jack IN





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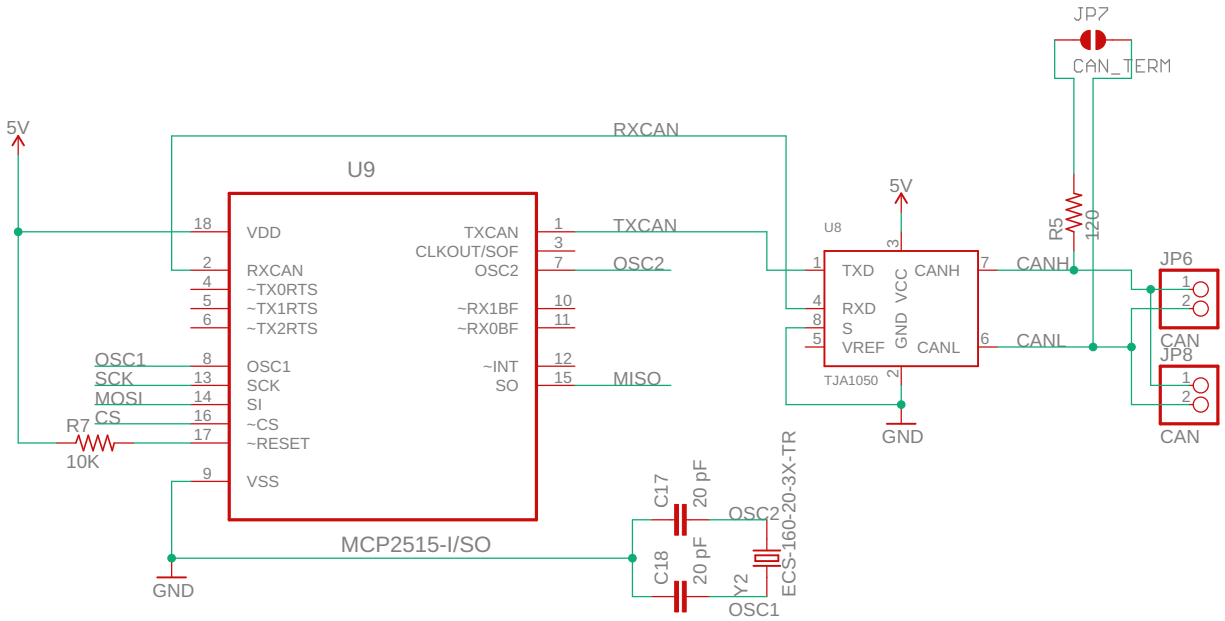

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