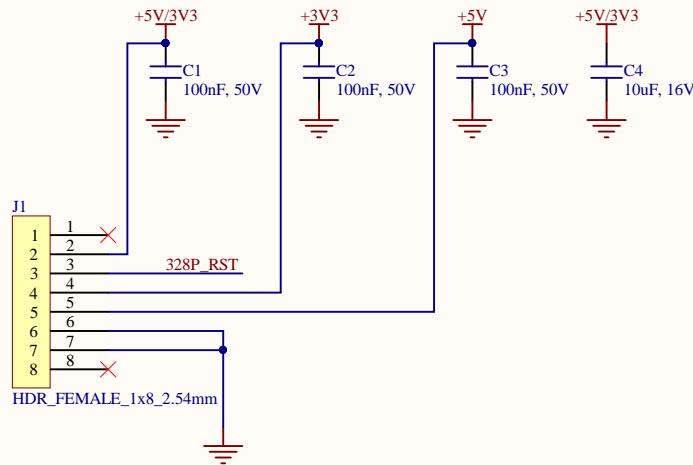
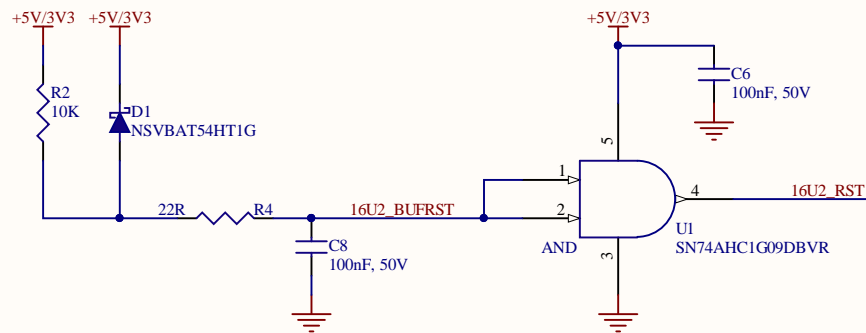


28PINS BOARD

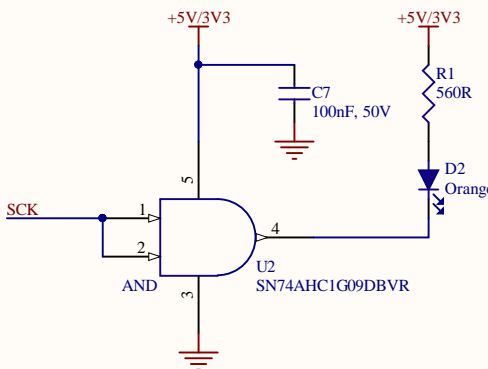
POWER



16U2 RESET

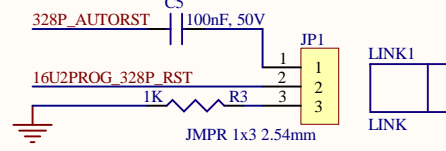


USER LED

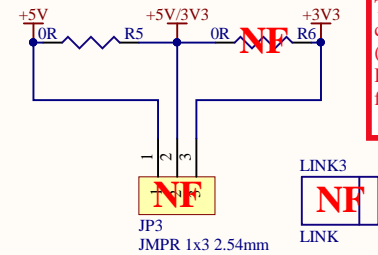


JP1 CONFIGURATIONS:
Jumper on pins 1 & 2 - Enables the ATMEGA16U2 to auto-reset the ATMEGA328P when uploading code from the Arduino IDE.
Jumper on pins 2 & 3 - Enables DFU mode on the ATMEGA16U2 for firmware updates via USB.
During RESET, the HWB pin is sampled on the rising edge of RESET and, if pulled low, will put the chip in DFU mode.

JP1

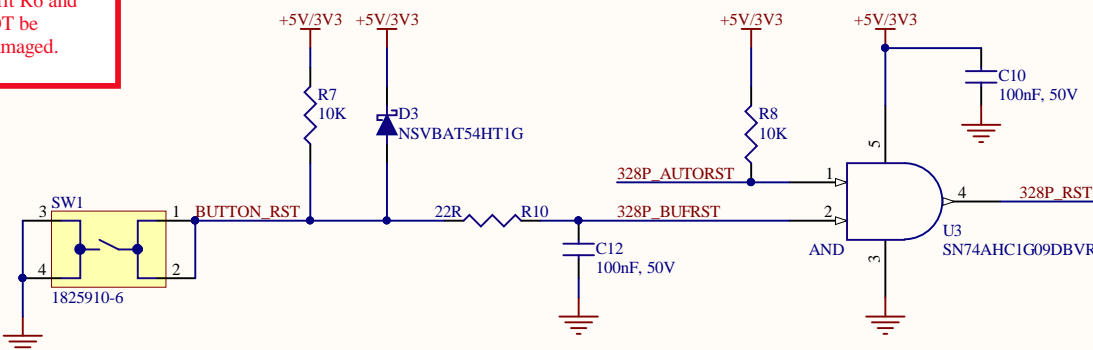


POWER SELECT

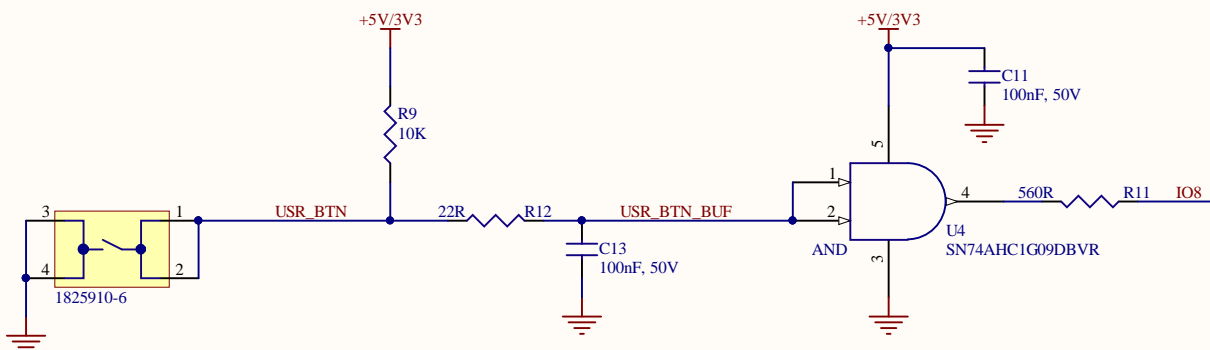


DESIGN NOTE:
This board can be powered from micro USB connector (J7) or a single +3.3V power rail (through J1 pin 4). If +3.3V is used, fit R6 and R18. In this case, JP3 & R5 must NOT be fitted, otherwise the board may be damaged.

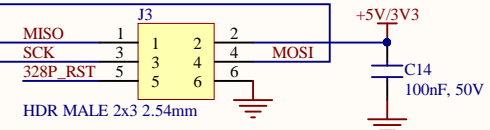
328P RESET



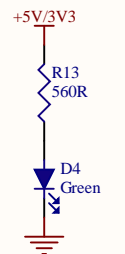
USER BUTTON



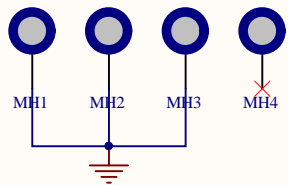
ICSP 328P



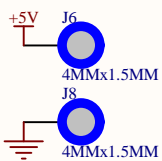
POWER LED



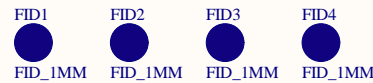
MOUNTING HOLES



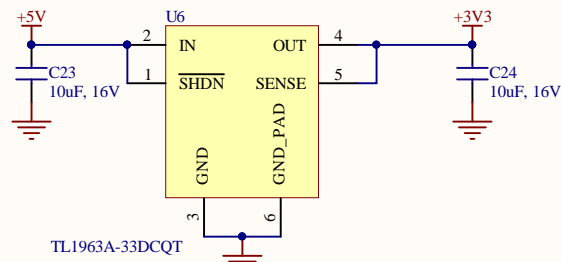
POWER PADS



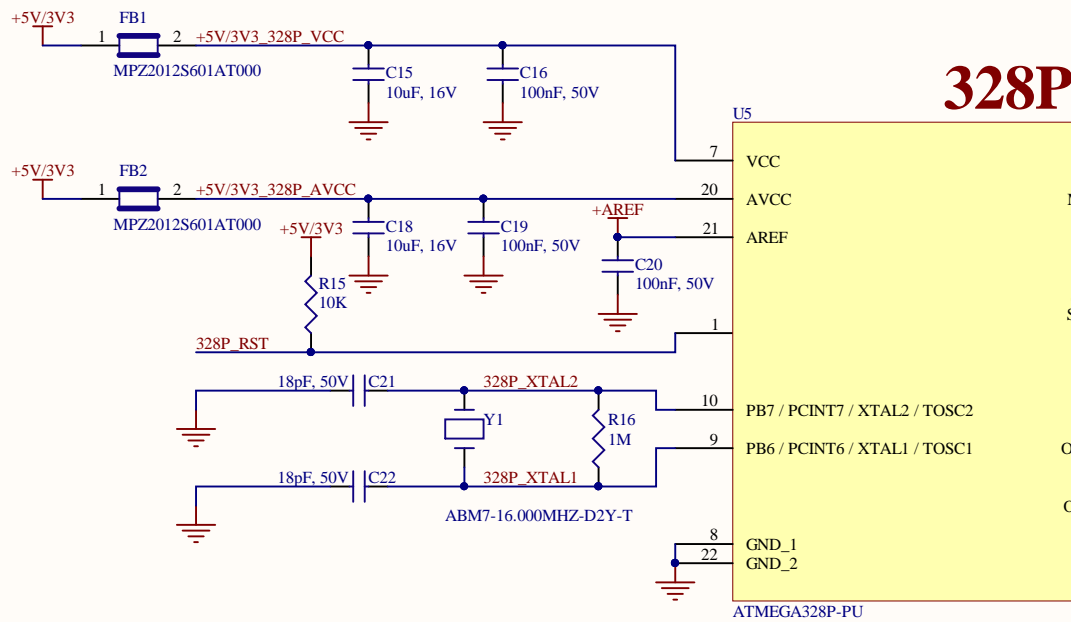
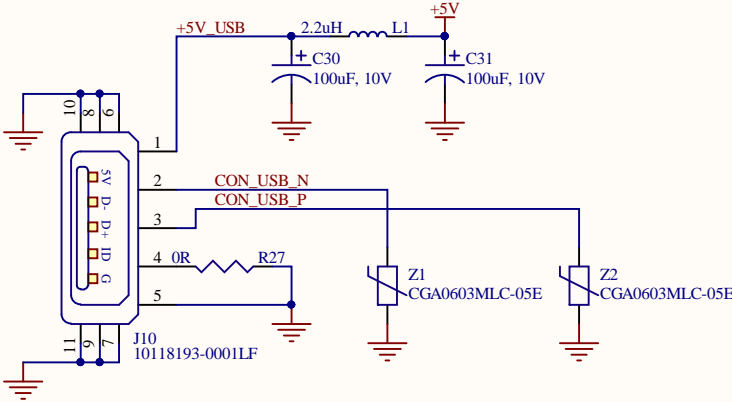
FIDUCIALS



3V3 LDO



MICRO USB



328P

SCK / PCINT5 / PB5
MISO / PCINT4 / PB4
MOSI / OC2A / PCINT3 / PB3
SS / OC1B / PCINT2 / PB2
OC1A / PCINT1 / PB1
CLKO / ICP1 / PCINT0 / PB0
SCL / ADC5 / PCINT13 / PC5
SDA / ADC4 / PCINT12 / PC4
ADC3 / PCINT11 / PC3
ADC2 / PCINT10 / PC2
ADC1 / PCINT9 / PC1
ADCO / PCINT8 / PC0
AIN1 / PCINT23 / PD7
OC0A / AIN0 / PCINT22 / PD6
OC0B / T1 / PCINT21 / PD5
XCK / T0 / PCINT20 / PD4
OC2B / INT1 / PCINT19 / PD3
INT0 / PCINT18 / PD2
TXD / PCINT17 / PD1
RXD / PCINT16 / PD0

IOH

HDR FEMALE 1x10 2.54mm

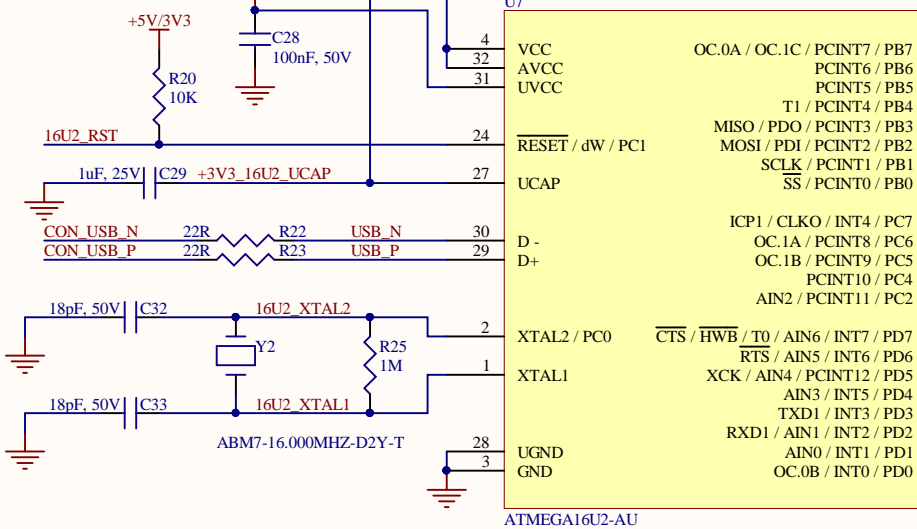
AD

HDR FEMALE 1x6 2.54mm

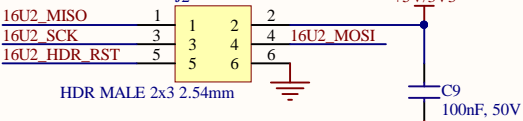
IOL

HDR FEMALE 1x8 2.54mm

16U2



ICSP 16U2



Title		Revision	
28Pins		V01	
Size	Number		
A2			
Date:	6/16/2020	Sheet 1 of 1	
File:	C:\Users\j28Pins\Schematic\SchDoc	Drawn By:	James Morar