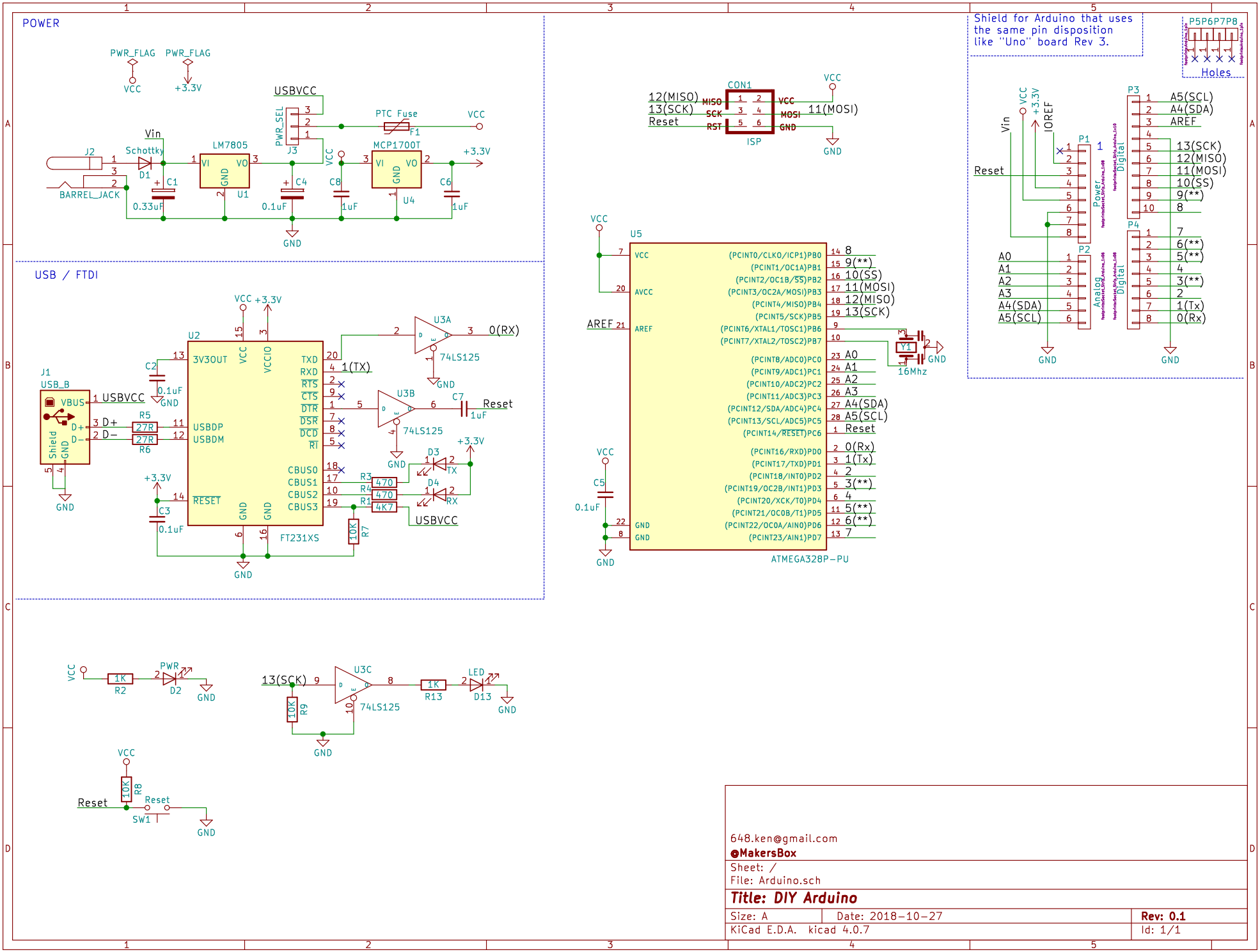
POWER
PWR_FLAG
VCC
+3.3V
USBVCC
PWR_SEL
J3
PTC Fuse
F1
J2
Vin
Schottky
D1
LM7805
U1
MCP1700T
U4
C1
0.33uF
C4
0.1uF
C8
1uF
C6
1uF
BARREL_JACK
GND
USB / FTDI
U2
FT231XS
3V3OUT
VCC
VCCIO
TXD
RXD
RTS
CTS
DTR
DSR
DCD
RI
CBUS0
CBUS1
CBUS2
CBUS3
USBDP
USBDM
RESET
J1
USB_B
VBUS
D+
D−
Shield
R5
27R
R6
27R
C2
0.1uF
C3
0.1uF
U3A
U3B
74LS125
0(RX)
1(TX)
Reset
C7
1uF
D3
TX
D4
RX
R3
470
R4
470
R1
4K7
R7
10K
CON1
ISP
MISO
SCK
RST
MOSI
12(MISO)
13(SCK)
11(MOSI)
U5
ATMEGA328P−PU
AREF
Y1
16Mhz
C5
0.1uF
(PCINT0/CLKO/ICP1)PB0
(PCINT1/OC1A)PB1
(PCINT2/OC1B/SS)PB2
(PCINT3/OC2A/MOSI)PB3
(PCINT4/MISO)PB4
(PCINT5/SCK)PB5
(PCINT6/XTAL1/TOSC1)PB6
(PCINT7/XTAL2/TOSC2)PB7
(PCINT8/ADC0)PC0
(PCINT9/ADC1)PC1
(PCINT10/ADC2)PC2
(PCINT11/ADC3)PC3
(PCINT12/SDA/ADC4)PC4
(PCINT13/SCL/ADC5)PC5
(PCINT14/RESET)PC6
(PCINT16/RXD)PD0
(PCINT17/TXD)PD1
(PCINT18/INT0)PD2
(PCINT19/OC2B/INT1)PD3
(PCINT20/XCK/T0)PD4
(PCINT21/OC0B/T1)PD5
(PCINT22/OC0A/AIN0)PD6
(PCINT23/AIN1)PD7
Shield for Arduino that uses the same pin disposition like "Uno" board Rev 3.
P5P6P7P8
Holes
P1
Power
P2
Analog
P3
Digital
P4
Digital
A5(SCL)
A4(SDA)
AREF
13(SCK)
12(MISO)
11(MOSI)
10(SS)
9(**)
8
7
6(**)
5(**)
4
3(**)
2
1(Tx)
0(Rx)
A0
A1
A2
A3
IOREF
PWR
D2
R2
1K
LED
D13
R13
1K
U3C
74LS125
R9
10K
R8
10K
SW1
648.ken@gmail.com
@MakersBox
Sheet: /
File: Arduino.sch
Title: DIY Arduino
Size: A
Date: 2018−10−27
Rev: 0.1
KiCad E.D.A. kicad 4.0.7
Id: 1/1