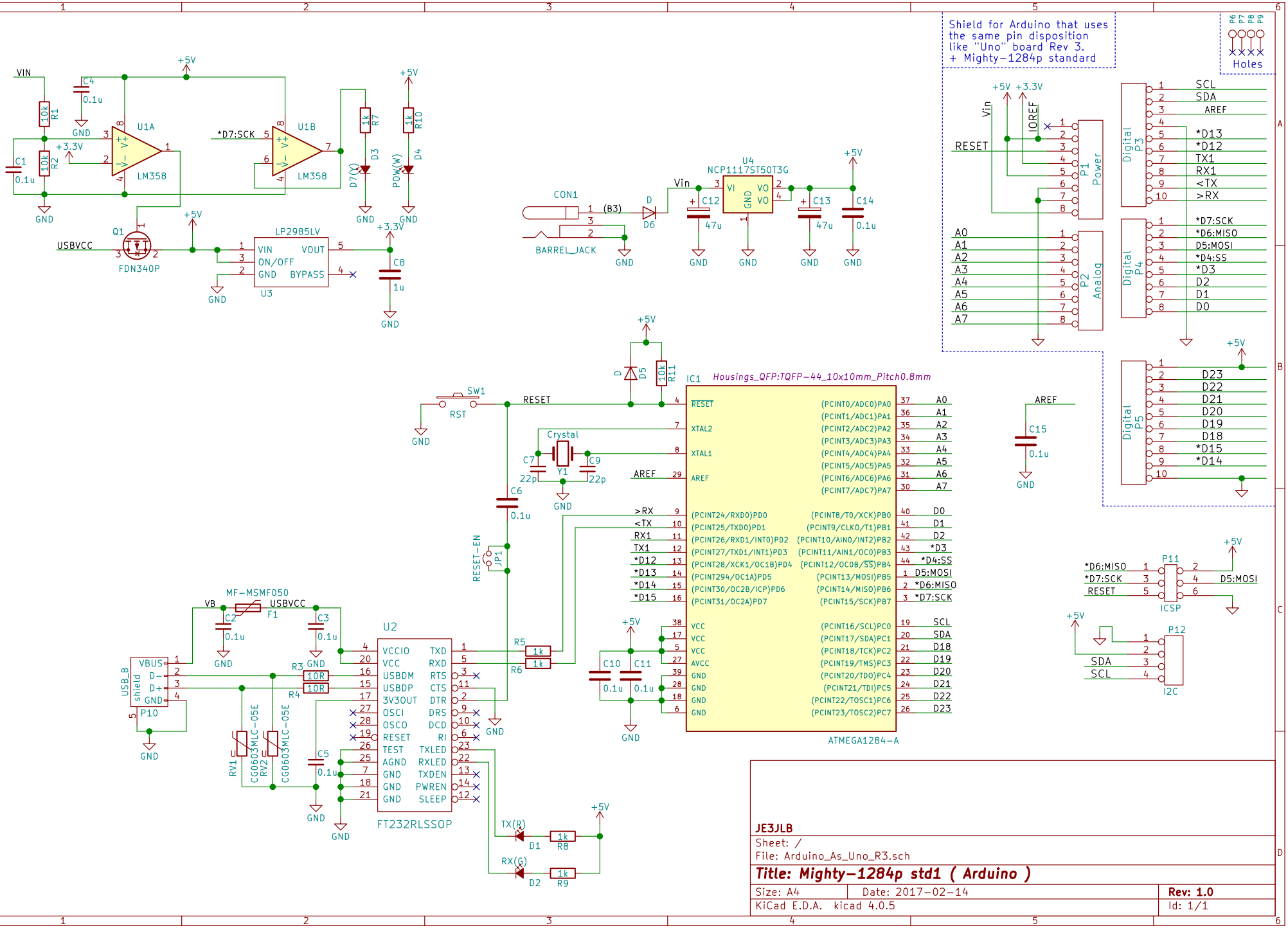
Shield for Arduino that uses the same pin disposition like "Uno" board Rev 3.
+ Mighty-1284p standard
Holes
P6 P7 P8 P9
VIN
R1 10k
R2 10k
C1 0.1u
C4 0.1u
GND
+5V
+3.3V
U1A
LM358
U1B
LM358
*D7:SCK
R7 1k
R10 1k
D3 D7(Y)
D4 POW(W)
Q1
FDN340P
USBVCC
LP2985LV
VIN
ON/OFF
GND
VOUT
BYPASS
U3
C8 1u
CON1
BARREL_JACK
(B3)
D6
U4
NCP1117ST50T3G
VI
VO
C12 47u
C13 47u
C14 0.1u
Vin
IOREF
RESET
P1 Power
P2 Analog
A0 A1 A2 A3 A4 A5 A6 A7
Digital P3
SCL SDA AREF *D13 *D12 TX1 RX1 <TX >RX
Digital P4
*D7:SCK *D6:MISO D5:MOSI *D4:SS *D3 D2 D1 D0
Digital P5
D23 D22 D21 D20 D19 D18 *D15 *D14
IC1
Housings_QFP:TQFP-44_10x10mm_Pitch0.8mm
RESET
XTAL2
XTAL1
AREF
(PCINT24/RXD0)PD0
(PCINT25/TXD0)PD1
(PCINT26/RXD1/INT0)PD2
(PCINT27/TXD1/INT1)PD3
(PCINT28/XCK1/OC1B)PD4
(PCINT294/OC1A)PD5
(PCINT30/OC2B/ICP)PD6
(PCINT31/OC2A)PD7
VCC
AVCC
GND
(PCINT0/ADC0)PA0
(PCINT1/ADC1)PA1
(PCINT2/ADC2)PA2
(PCINT3/ADC3)PA3
(PCINT4/ADC4)PA4
(PCINT5/ADC5)PA5
(PCINT6/ADC6)PA6
(PCINT7/ADC7)PA7
(PCINT8/T0/XCK)PB0
(PCINT9/CLKO/T1)PB1
(PCINT10/AIN0/INT2)PB2
(PCINT11/AIN1/OC0)PB3
(PCINT12/OC0B/SS)PB4
(PCINT13/MOSI)PB5
(PCINT14/MISO)PB6
(PCINT15/SCK)PB7
(PCINT16/SCL)PC0
(PCINT17/SDA)PC1
(PCINT18/TCK)PC2
(PCINT19/TMS)PC3
(PCINT20/TDO)PC4
(PCINT21/TDI)PC5
(PCINT22/TOSC1)PC6
(PCINT23/TOSC2)PC7
ATMEGA1284-A
SW1
RST
Crystal
Y1
C7 22p
C9 22p
C6 0.1u
RESET-EN
JP1
D5
R11 10k
C15 0.1u
MF-MSMF050
F1
VB
USBVCC
C2 0.1u
C3 0.1u
USB_B
shield
VBUS
D-
D+
P10
R3 10R
R4 10R
RV1 CG0603MLC-05E
RV2 CG0603MLC-05E
C5 0.1u
U2
VCCIO
VCC
USBDM
USBDP
3V3OUT
OSCI
OSCO
RESET
TEST
AGND
GND
TXD
RXD
RTS
CTS
DTR
DRS
DCD
RI
TXLED
RXLED
TXDEN
PWREN
SLEEP
FT232RLSSOP
R5 1k
R6 1k
C10 0.1u
C11 0.1u
TX(R)
D1
R8 1k
RX(G)
D2
R9 1k
P11
ICSP
*D6:MISO
*D7:SCK
RESET
D5:MOSI
P12
I2C
SDA
SCL
JE3JLB
Sheet: /
File: Arduino_As_Uno_R3.sch
Title: Mighty-1284p std1 (Arduino)
Size: A4
Date: 2017-02-14
Rev: 1.0
KiCad E.D.A. kicad 4.0.5
Id: 1/1