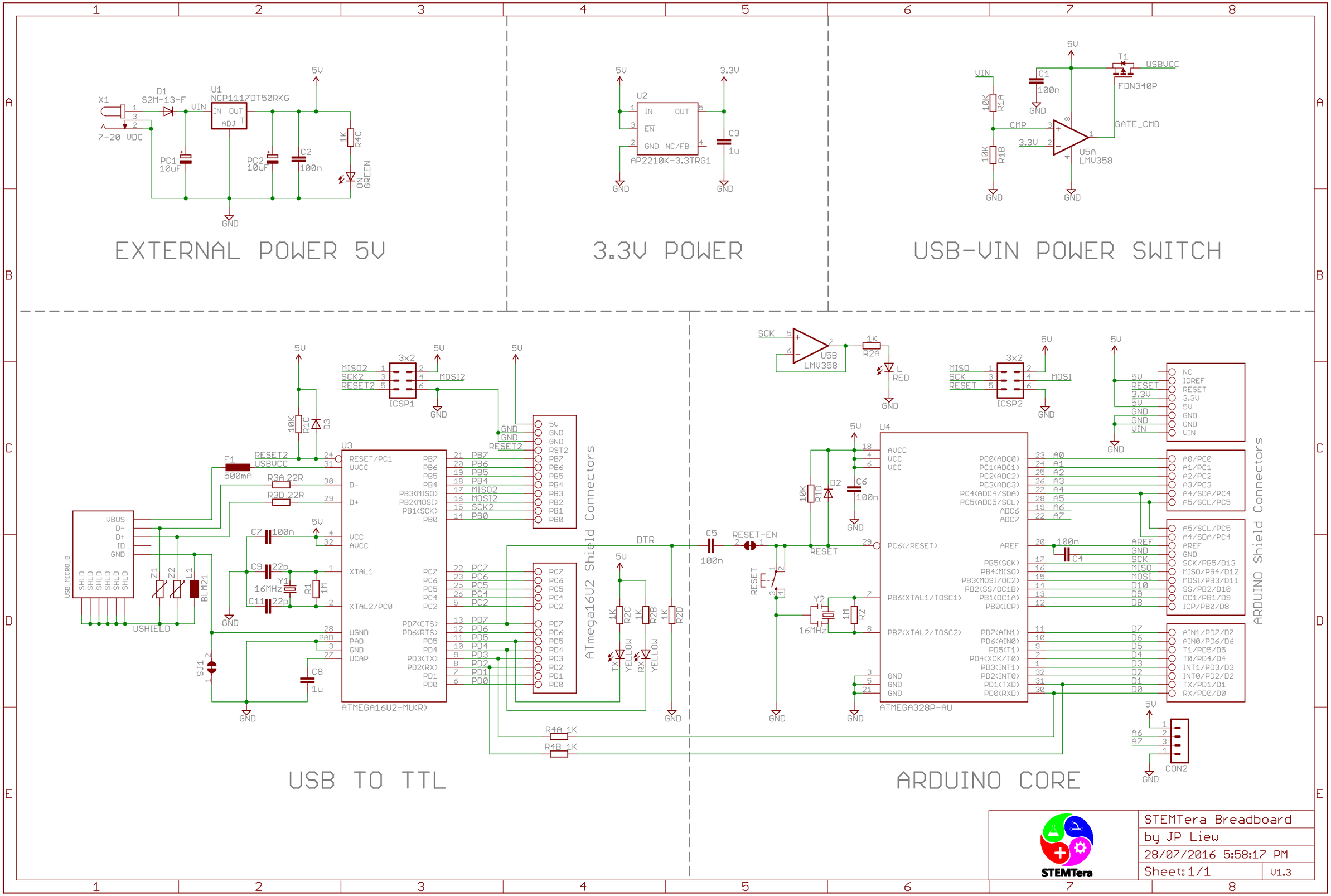
EXTERNAL POWER 5V
X1
7-20 VDC
D1
S2M-13-F
U1
NCP1117DT50RKG
IN OUT
ADJ
VIN
PC1
10uF
PC2
10uF
C2
100n
1K
R4C
ON
GREEN
5V
GND
3.3V POWER
U2
IN OUT
EN
GND NC/FB
AP2210K-3.3TRG1
C3
1u
USB-VIN POWER SWITCH
T1
USBVCC
FDN340P
C1
100n
10K
R1A
10K
R1B
CMP
3.3V
GATE_CMD
U5A
LMV358
USB TO TTL
ICSP1
3x2
MISO2
SCK2
RESET2
MOSI2
U3
ATMEGA16U2-MU(R)
RESET/PC1
UVCC
D-
D+
VCC
AVCC
XTAL1
XTAL2/PC0
UGND
PAD
GND
UCAP
PB7
PB6
PB5
PB4
PB3(MISO)
PB2(MOSI)
PB1(SCK)
PB0
PC7
PC6
PC5
PC4
PC2
PD7(CTS)
PD6(RTS)
PD5
PD4
PD3(TX)
PD2(RX)
PD1
PD0
F1
500mA
R3A 22R
R3D 22R
C7 100n
C9 22p
C11 22p
Y1
16MHz
R1 1M
C8
1u
SJ1
USB_MICRO_B
VBUS
D-
D+
ID
GND
SHLD
USHIELD
Z1
Z2
L1
BLM21
ATmega16U2 Shield Connectors
DTR
TX
RX
YELLOW
R2C 1K
R2B 1K
R2D 1K
R4A 1K
R4B 1K
ARDUINO CORE
SCK
U5B
LMV358
R2A 1K
L
RED
ICSP2
MISO
SCK
RESET
MOSI
U4
ATMEGA328P-AU
AVCC
VCC
PC0(ADC0)
PC1(ADC1)
PC2(ADC2)
PC3(ADC3)
PC4(ADC4/SDA)
PC5(ADC5/SCL)
ADC6
ADC7
PC6(/RESET)
AREF
PB5(SCK)
PB4(MISO)
PB3(MOSI/OC2)
PB2(SS/OC1B)
PB1(OC1A)
PB0(ICP)
PB6(XTAL1/TOSC1)
PB7(XTAL2/TOSC2)
PD7(AIN1)
PD6(AIN0)
PD5(T1)
PD4(XCK/T0)
PD3(INT1)
PD2(INT0)
PD1(TXD)
PD0(RXD)
D2
10K
R1D
C6
100n
C5
100n
RESET-EN
RESET
Y2
16MHz
1M
R2
C4
100n
NC
IOREF
RESET
3.3V
5V
GND
VIN
A0/PC0
A1/PC1
A2/PC2
A3/PC3
A4/SDA/PC4
A5/SCL/PC5
AREF
SCK/PB5/D13
MISO/PB4/D12
MOSI/PB3/D11
SS/PB2/D10
OC1/PB1/D9
ICP/PB0/D8
AIN1/PD7/D7
AIN0/PD6/D6
T1/PD5/D5
T0/PD4/D4
INT1/PD3/D3
INT0/PD2/D2
TX/PD1/D1
RX/PD0/D0
ARDUINO Shield Connectors
CON2
STEMTera
STEMTera Breadboard
by JP Liew
28/07/2016 5:58:17 PM
Sheet:1/1
V1.3