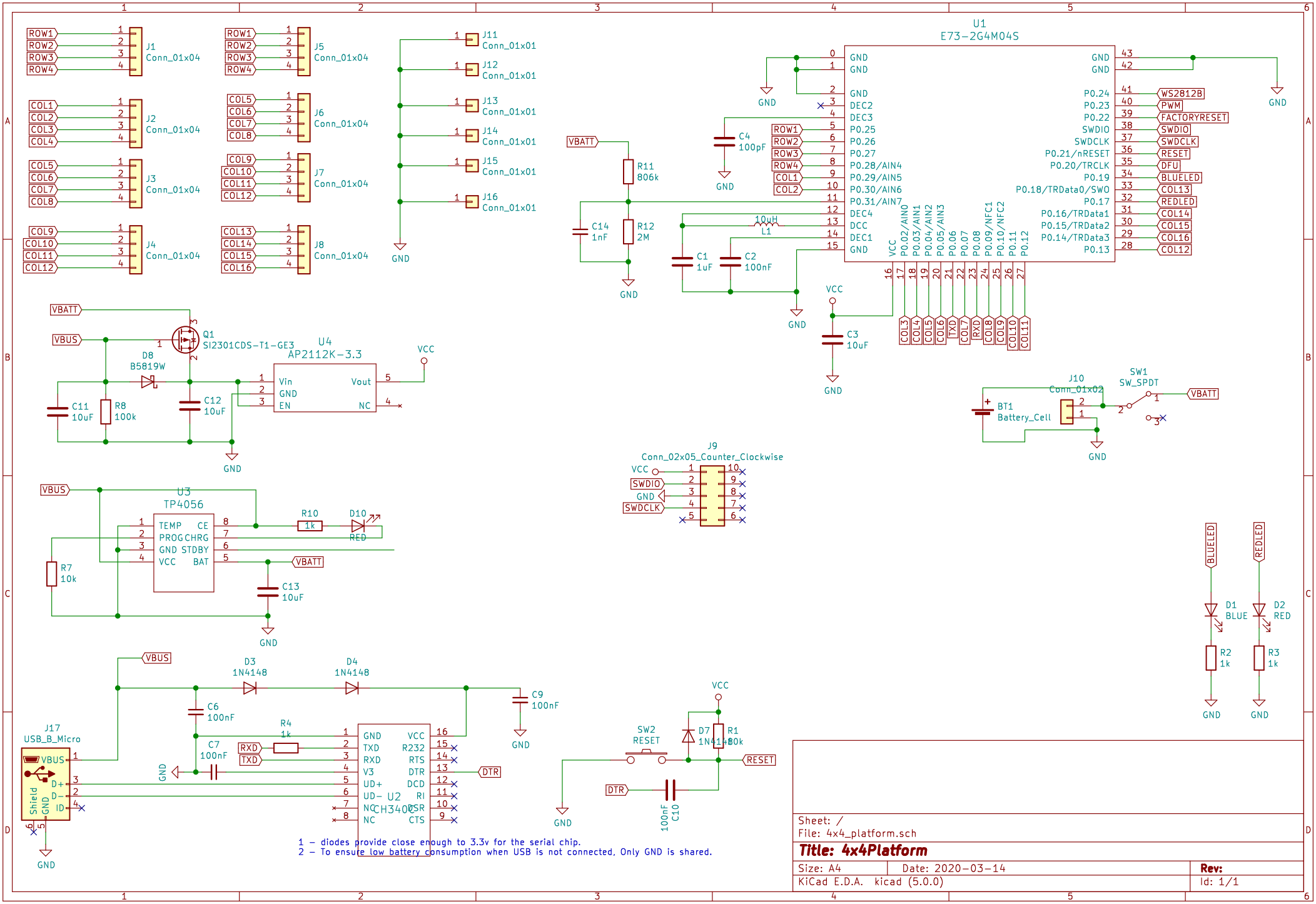
U1
E73-2G4M04S
J1 Conn_01x04
J2 Conn_01x04
J3 Conn_01x04
J4 Conn_01x04
J5 Conn_01x04
J6 Conn_01x04
J7 Conn_01x04
J8 Conn_01x04
J11 Conn_01x01
J12 Conn_01x01
J13 Conn_01x01
J14 Conn_01x01
J15 Conn_01x01
J16 Conn_01x01
ROW1
ROW2
ROW3
ROW4
COL1
COL2
COL3
COL4
COL5
COL6
COL7
COL8
COL9
COL10
COL11
COL12
COL13
COL14
COL15
COL16
GND
VBATT
R11 806k
R12 2M
C14 1nF
C4 100pF
C1 1uF
C2 100nF
L1 10uH
C3 10uF
VCC
WS2812B
PWM
FACTORYRESET
SWDIO
SWDCLK
RESET
DFU
BLUELED
REDLED
TXD
RXD
Q1 SI2301CDS-T1-GE3
D8 B5819W
C11 10uF
R8 100k
C12 10uF
U4 AP2112K-3.3
Vin
Vout
EN
NC
J10 Conn_01x02
SW1 SW_SPDT
BT1 Battery_Cell
J9 Conn_02x05_Counter_Clockwise
U3 TP4056
TEMP
PROG
GND
VCC
CE
CHRG
STDBY
BAT
R10 1k
D10 RED
R7 10k
C13 10uF
D1 BLUE
D2 RED
R2 1k
R3 1k
J17 USB_B_Micro
VBUS
D+
D-
ID
Shield
D3 1N4148
D4 1N4148
C6 100nF
C7 100nF
C9 100nF
R4 1k
U2 CH340C
TXD
RXD
V3
UD+
UD-
NC
R232
RTS
DTR
DCD
RI
DSR
CTS
SW2 RESET
D7 1N4148
R1 80k
C10 100nF
1 – diodes provide close enough to 3.3v for the serial chip.
2 – To ensure low battery consumption when USB is not connected, Only GND is shared.
Sheet: /
File: 4x4_platform.sch
Title: 4x4Platform
Size: A4
Date: 2020-03-14
Rev:
KiCad E.D.A. kicad (5.0.0)
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