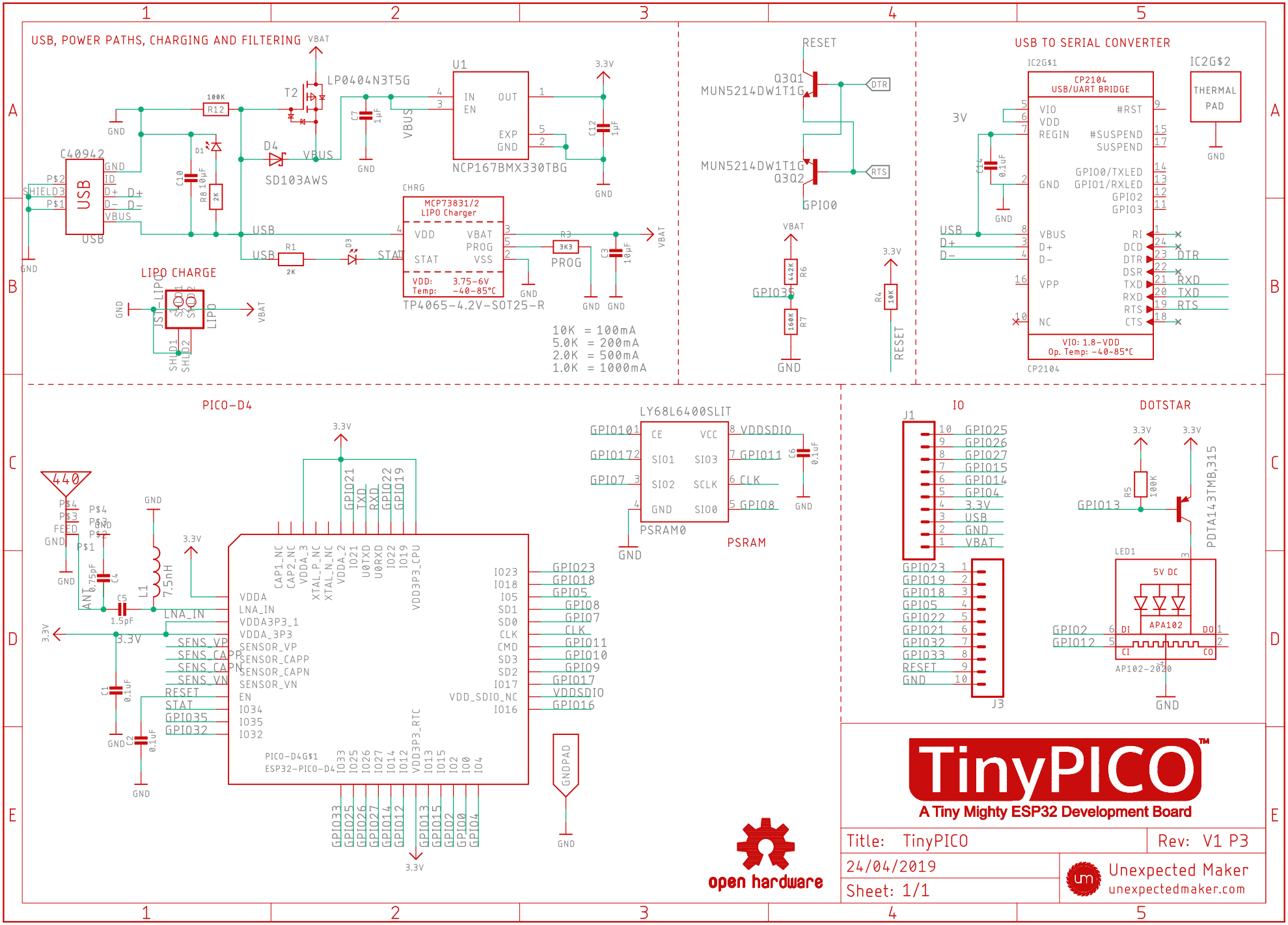
USB, POWER PATHS, CHARGING AND FILTERING
VBAT
LP0404N3T5G
T2
100K
R12
GND
C40942
USB
P$2
SHIELD3
P$1
GND
ID
D+
D-
VBUS
D1
C10
10µF
R8
2K
D4
SD103AWS
VBUS
C7
1µF
U1
IN
EN
OUT
EXP
GND
NCP167BMX330TBG
3.3V
C12
1µF
USB
R1
2K
D3
STAT
CHRG
MCP73831/2
LIPO Charger
VDD
STAT
VBAT
PROG
VSS
VDD: 3.75-6V
Temp: -40-85°C
TP4065-4.2V-SOT25-R
R3
3K3
PROG
C3
10µF
LIPO CHARGE
JST-LIPO
LIPO
SHLD1
SHLD2
10K = 100mA
5.0K = 200mA
2.0K = 500mA
1.0K = 1000mA
RESET
Q3Q1
MUN5214DW1T1G
DTR
MUN5214DW1T1G
Q3Q2
RTS
GPIO0
VBAT
R6
442K
GPIO3
R7
160K
GND
3.3V
R4
10K
RESET
USB TO SERIAL CONVERTER
IC2G$1
CP2104
USB/UART BRIDGE
VIO
VDD
REGIN
#RST
#SUSPEND
SUSPEND
GND
GPIO0/TXLED
GPIO1/RXLED
GPIO2
GPIO3
VBUS
D+
D-
VPP
NC
RI
DCD
DTR
DSR
TXD
RXD
RTS
CTS
VIO: 1.8-VDD
Op. Temp: -40-85°C
CP2104
3V
C14
0.1uF
USB
D+
D-
DTR
RXD
TXD
RTS
IC2G$2
THERMAL PAD
PICO-D4
440
P$4
P$3
FEED
GND
P$1
C4
0.75pF
ANT
C5
1.5pF
L1
7.5nH
LNA_IN
3.3V
C1
0.1uF
C2
0.1uF
SENS_VP
SENS_CAPP
SENS_CAPN
SENS_VN
RESET
STAT
GPIO35
GPIO32
GPIO21
TXD
RXD
GPIO22
GPIO19
CAP1_NC
CAP2_NC
VDDA_3
XTAL_P_NC
XTAL_N_NC
VDDA_2
IO21
U0TXD
U0RXD
IO22
IO19
VDD3P3_CPU
VDDA
LNA_IN
VDDA3P3_1
VDDA_3P3
SENSOR_VP
SENSOR_CAPP
SENSOR_CAPN
SENSOR_VN
EN
IO34
IO35
IO32
IO23
IO18
IO5
SD1
SD0
CLK
CMD
SD3
SD2
IO17
VDD_SDIO_NC
IO16
GPIO23
GPIO18
GPIO5
GPIO8
GPIO7
CLK
GPIO11
GPIO10
GPIO9
GPIO17
VDDSDIO
GPIO16
PICO-D4G$1
ESP32-PICO-D4
IO33
IO25
IO26
IO27
IO14
IO12
VDD3P3_RTC
IO13
IO15
IO2
IO0
IO4
GPIO33
GPIO25
GPIO26
GPIO27
GPIO14
GPIO12
GPIO13
GPIO15
GPIO2
GPIO0
GPIO4
GNDPAD
LY68L6400SLIT
GPIO101
GPIO172
GPIO7
CE
SIO1
SIO2
GND
VCC
SIO3
SCLK
SIO0
VDDSDIO
GPIO11
CLK
GPIO8
C6
0.1uF
PSRAM0
PSRAM
IO
J1
GPIO25
GPIO26
GPIO27
GPIO15
GPIO14
GPIO4
3.3V
USB
GND
VBAT
GPIO23
GPIO19
GPIO18
GPIO5
GPIO22
GPIO21
GPIO32
GPIO33
RESET
GND
J3
DOTSTAR
3.3V
R5
100K
GPIO13
PDTA143TMB,315
LED1
5V DC
APA102
DI
DO
CI
CO
GPIO2
GPIO12
AP102-2020
open hardware
TinyPICO
A Tiny Mighty ESP32 Development Board
Title: TinyPICO
Rev: V1 P3
24/04/2019
Sheet: 1/1
Unexpected Maker
unexpectedmaker.com