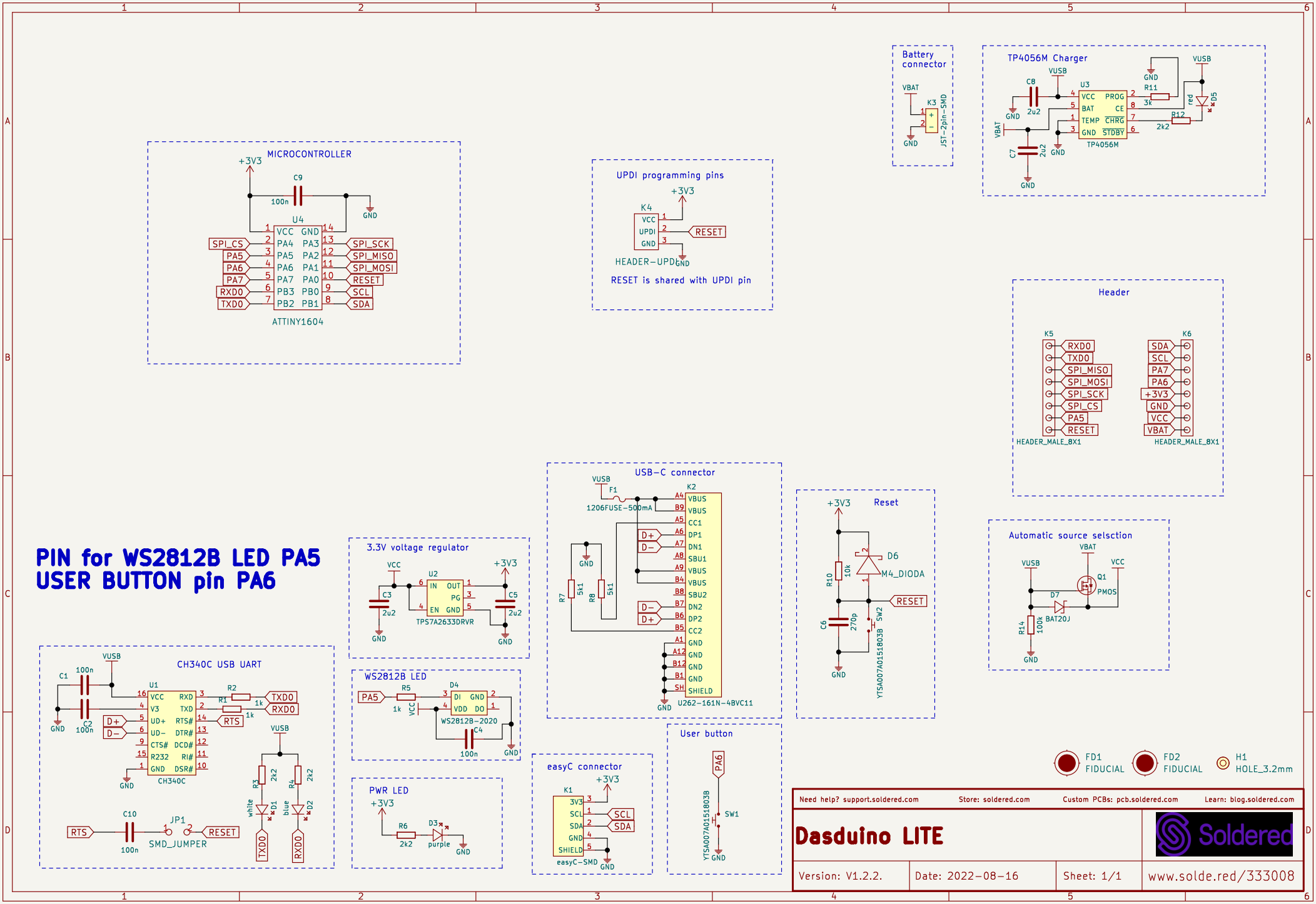
MICROCONTROLLER
+3V3
C9
100n
GND
U4
VCC GND
PA4 PA3
PA5 PA2
PA6 PA1
PA7 PA0
PB3 PB0
PB2 PB1
SPI_CS
PA5
PA6
PA7
RXD0
TXD0
SPI_SCK
SPI_MISO
SPI_MOSI
RESET
SCL
SDA
ATTINY1604
UPDI programming pins
+3V3
K4
VCC
UPDI
GND
RESET
HEADER-UPDI
RESET is shared with UPDI pin
Battery connector
VBAT
K3
JST-2pin-SMD
GND
TP4056M Charger
VUSB
C8
2u2
U3
VCC PROG
BAT CE
TEMP CHRG
GND STDBY
TP4056M
R11
3k
R12
2k2
D5
red
C7
2u2
VBAT
Header
K5
RXD0
TXD0
SPI_MISO
SPI_MOSI
SPI_SCK
SPI_CS
PA5
RESET
HEADER_MALE_8X1
K6
SDA
SCL
PA7
PA6
+3V3
GND
VCC
VBAT
HEADER_MALE_8X1
PIN for WS2812B LED PA5
USER BUTTON pin PA6
3.3V voltage regulator
VCC
U2
IN OUT
PG
EN GND
TPS7A2633DRVR
C3
2u2
C5
2u2
USB-C connector
VUSB
F1
1206FUSE-500mA
K2
VBUS
CC1
DP1
DN1
SBU1
SBU2
DN2
DP2
CC2
GND
SHIELD
D+
D-
R7
5k1
R8
5k1
U262-161N-4BVC11
Reset
+3V3
D6
M4_DIODA
R10
10k
RESET
C6
270p
SW2
YTSA007A01518O3B
Automatic source selsction
VBAT
VUSB
VCC
Q1
PMOS
D7
BAT20J
R14
100k
CH340C USB UART
VUSB
C1
100n
C2
100n
U1
VCC RXD
V3 TXD
UD+ RTS#
UD- DTR#
CTS# DCD#
R232 RI#
GND DSR#
CH340C
R1
1k
R2
1k
TXD0
RXD0
RTS
D+
D-
R3
2k2
R4
2k2
D1
white
D2
blue
C10
100n
JP1
SMD_JUMPER
RESET
WS2812B LED
PA5
R5
1k
VCC
D4
DI GND
VDD DO
WS2812B-2020
C4
100n
PWR LED
+3V3
R6
2k2
D3
purple
easyC connector
+3V3
K1
3V3
SCL
SDA
GND
SHIELD
easyC-SMD
User button
PA6
SW1
YTSA007A01518O3B
FD1
FIDUCIAL
FD2
FIDUCIAL
H1
HOLE_3.2mm
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