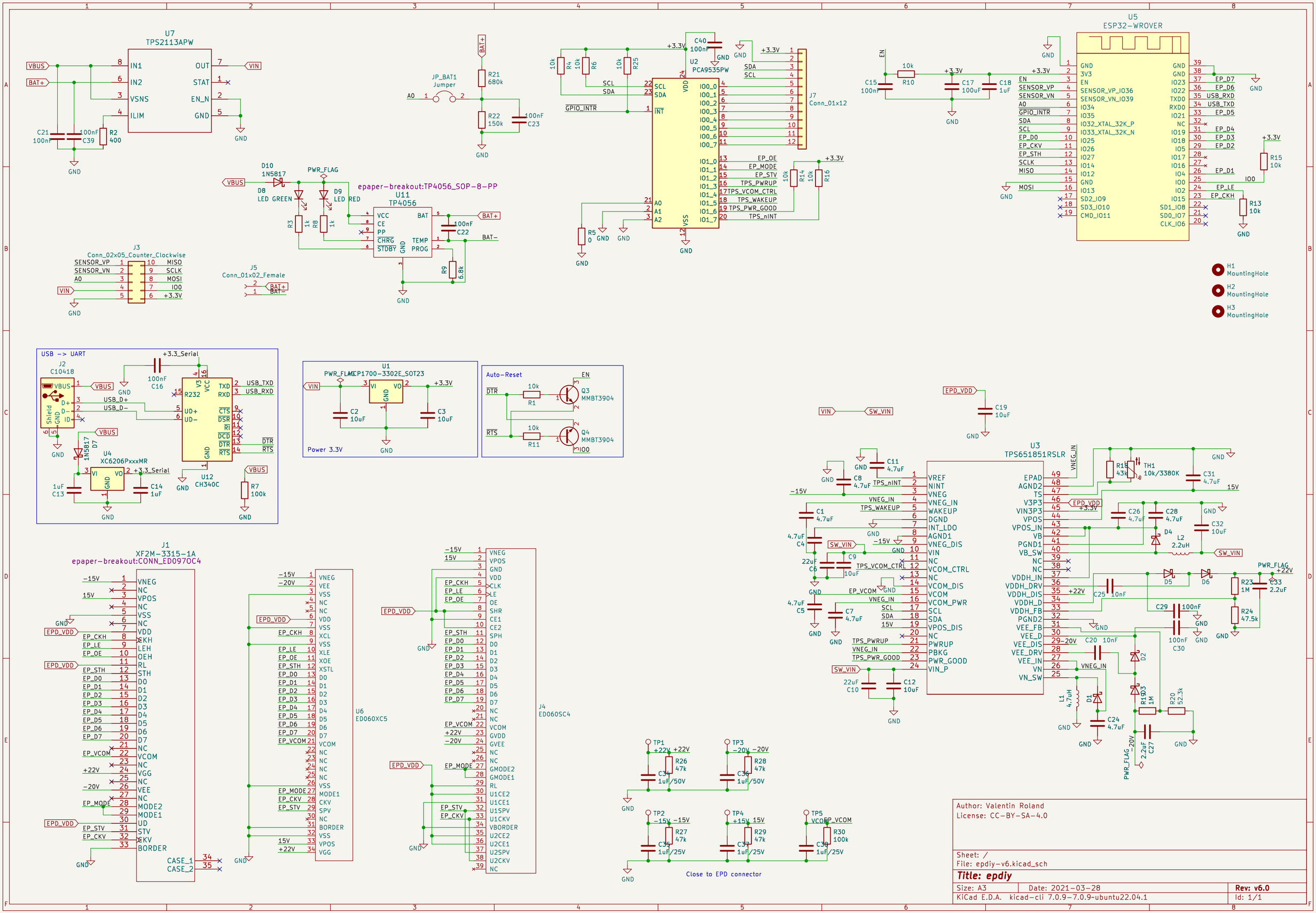
U7
TPS2113APW
VBUS
BAT+
IN1
IN2
VSNS
ILIM
OUT
STAT
EN_N
GND
VIN
C21 100nF
C39 100nF
R2 400
JP_BAT1
Jumper
A0
R21 680k
R22 150k
C23 100nF
D10 1N5817
PWR_FLAG
D8 LED GREEN
D9 LED RED
R3 1k
R8 1k
epaper-breakout:TP4056_SOP-8-PP
U11
TP4056
VCC
CE
PP
CHRG
STDBY
BAT
TEMP
PROG
C22 100nF
R9 6.8k
BAT-
J3
Conn_02x05_Counter_Clockwise
SENSOR_VP
SENSOR_VN
A0
VIN
MISO
SCLK
MOSI
IO0
+3.3V
J5
Conn_01x02_Female
C40 100nF
U2
PCA9535PW
SCL
SDA
GPIO_INTR
INT
VDD
VSS
A0
A1
A2
IO0_0
IO0_1
IO0_2
IO0_3
IO0_4
IO0_5
IO0_6
IO0_7
IO1_0 EP_OE
IO1_1 EP_MODE
IO1_2 EP_STV
IO1_3 TPS_PWRUP
IO1_4 TPS_VCOM_CTRL
IO1_5 TPS_WAKEUP
IO1_6 TPS_PWR_GOOD
IO1_7 TPS_nINT
R4 10k
R6 10k
R25 10k
R5 0
J7
Conn_01x12
R14 10k
R16 10k
U5
ESP32-WROVER
EN
R10 10k
C15 100nF
C17 100uF
C18 1uF
GND
3V3
SENSOR_VP_IO36
SENSOR_VN_IO39
IO34
IO35
IO32_XTAL_32K_P
IO33_XTAL_32K_N
IO25
IO26
IO27
IO14
IO12
IO13
SD2_IO9
SD3_IO10
CMD_IO11
IO23
IO22
TXD0
RXD0
IO21
NC
IO19
IO18
IO5
IO17
IO16
IO4
IO0
IO2
IO15
SD1_IO8
SD0_IO7
CLK_IO6
EP_D7
EP_D6
USB_RXD
USB_TXD
EP_D5
EP_D4
EP_D3
EP_D2
EP_D1
EP_LE
EP_CKH
R15 10k
R13 10k
H1 MountingHole
H2 MountingHole
H3 MountingHole
USB -> UART
J2
C10418
VBUS
Shield
D+
D-
ID
USB_D+
USB_D-
+3.3_Serial
C16 100nF
U4
XC6206PxxxMR
VI
VO
C13 1uF
C14 1uF
D7 1N5817
U12
CH340C
V3
VCC
R232
TXD
RXD
UD+
UD-
CTS
DSR
RI
DCD
DTR
RTS
R7 100k
U1
MCP1700-3302E_SOT23
PWR_FLAG
C2 10uF
C3 10uF
Power 3.3V
Auto-Reset
Q3 MMBT3904
Q4 MMBT3904
R1 10k
R11 10k
IO0
J1
XF2M-3315-1A
epaper-breakout:CONN_ED097OC4
VNEG
NC
VPOS
VSS
VDD
EKH
LEH
OEH
RL
STH
D0
D1
D2
D3
D4
D5
D6
D7
VCOM
VGG
VEE
MODE2
MODE1
UD
STV
EKV
BORDER
CASE_1
CASE_2
U6
ED060XC5
VEE
XCL
XLE
XOE
XSTL
CKV
SPV
MODE1
VGG
J4
ED060SC4
GVDD
GVEE
GMODE2
GMODE1
U1CE2
U1CE1
U1SPV
U1CKV
VBORDER
U2CE2
U2CE1
U2SPV
U2CKV
TP1 +22V
TP2 -15V
TP3 -20V
TP4 +15V
TP5 VCOM
R26 47k
R27 47k
R28 47k
R29 47k
R30 100k
C34 1uF/50V
C35 1uF/25V
C36 1uF/50V
C37 1uF/25V
C38 1uF/25V
Close to EPD connector
VIN
SW_VIN
EPD_VDD
C19 10uF
U3
TPS651851RSLR
VREF
NINT
VNEG
VNEG_IN
WAKEUP
DGND
INT_LDO
AGND1
VNEG_DIS
VIN
NC
VCOM_CTRL
VCOM
VCOM_DIS
VCOM_PWR
SCL
SDA
VPOS_DIS
PWRUP
PBKG
PWR_GOOD
VIN_P
EPAD
AGND2
TS
V3P3
VIN3P3
VPOS
VPOS_IN
VB
PGND1
VB_SW
VDDH_IN
VDDH_DRV
VDDH_DIS
VDDH_D
VDDH_FB
PGND2
VEE_FB
VEE_D
VEE_DIS
VEE_DRV
VEE_IN
VN
VN_SW
TH1 10k/3380K
R19 43k
L2 2.2uH
D4
D5
D6
D2
D3
L1 4.7uH
R23 1M
R24 47.5k
R20 52.3k
C8 4.7uF
C11 4.7uF
C1 4.7uF
C4 4.7uF
C5 4.7uF
C6 10uF
C7 4.7uF
C9 22uF
C10 22uF
C12 10uF
C25 10nF
C26 4.7uF
C28 4.7uF
C29 100nF
C30 100nF
C31 4.7uF
C32 10uF
C33 2.2uF
C20 10nF
C24 4.7uF
C27 2.2uF
Author: Valentin Roland
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Sheet: /
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Title: epdiy
Size: A3
Date: 2021-03-28
Rev: v6.0
KiCad E.D.A. kicad-cli 7.0.9-7.0.9~ubuntu22.04.1
Id: 1/1