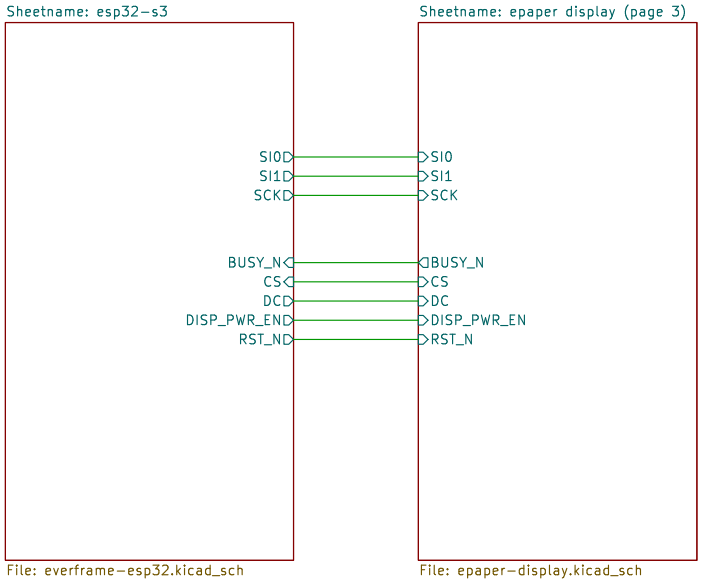

H1
MountingHole

H2
MountingHole

H3
MountingHole

H4
MountingHole

Sheet: /
File: everframe_board.kicad_sch

Title: Everframe Mainboard

Size: A4	Date: 2025-11-24	**Rev: 1.0.0**
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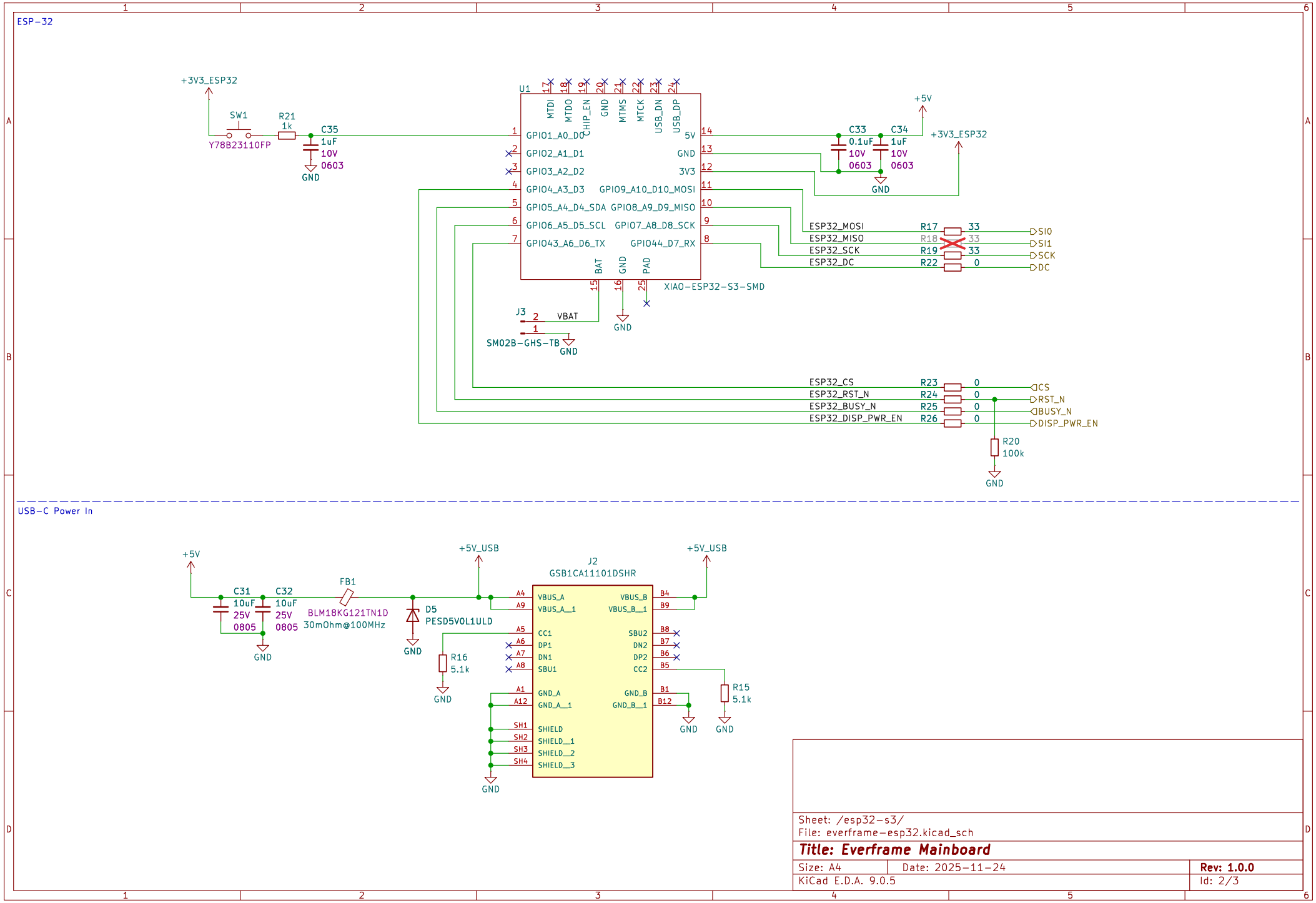
ESP-32
+3V3_ESP32
SW1
Y78B23110FP
R21
1k
C35
1uF
10V
0603
GND
U1
MTDI
MTDO
CHIP_EN
GND
MTMS
MTCK
USB_DN
USB_DP
GPIO1_A0_D0
GPIO2_A1_D1
GPIO3_A2_D2
GPIO4_A3_D3
GPIO5_A4_D4_SDA
GPIO6_A5_D5_SCL
GPIO43_A6_D6_TX
5V
GND
3V3
GPIO9_A10_D10_MOSI
GPIO8_A9_D9_MISO
GPIO7_A8_D8_SCK
GPIO44_D7_RX
BAT
GND
PAD
XIAO-ESP32-S3-SMD
+5V
C33
0.1uF
10V
0603
C34
1uF
10V
0603
GND
+3V3_ESP32
ESP32_MOSI
ESP32_MISO
ESP32_SCK
ESP32_DC
R17
33
R18
33
R19
33
R22
0
SI0
SI1
SCK
DC
J3
VBAT
SM02B-GHS-TB
GND
ESP32_CS
ESP32_RST_N
ESP32_BUSY_N
ESP32_DISP_PWR_EN
R23
0
R24
0
R25
0
R26
0
CS
RST_N
BUSY_N
DISP_PWR_EN
R20
100k
GND
USB-C Power In
+5V
C31
10uF
25V
0805
C32
10uF
25V
0805
GND
FB1
BLM18KG121TN1D
30mOhm@100MHz
+5V_USB
D5
PESD5V0L1ULD
GND
R16
5.1k
GND
J2
GSB1CA11101DSHR
VBUS_A
VBUS_A__1
CC1
DP1
DN1
SBU1
GND_A
GND_A__1
SHIELD
SHIELD__1
SHIELD__2
SHIELD__3
VBUS_B
VBUS_B__1
SBU2
DN2
DP2
CC2
GND_B
GND_B__1
+5V_USB
R15
5.1k
GND
GND
Sheet: /esp32-s3/
File: everframe-esp32.kicad_sch
Title: Everframe Mainboard
Size: A4
Date: 2025-11-24
Rev: 1.0.0
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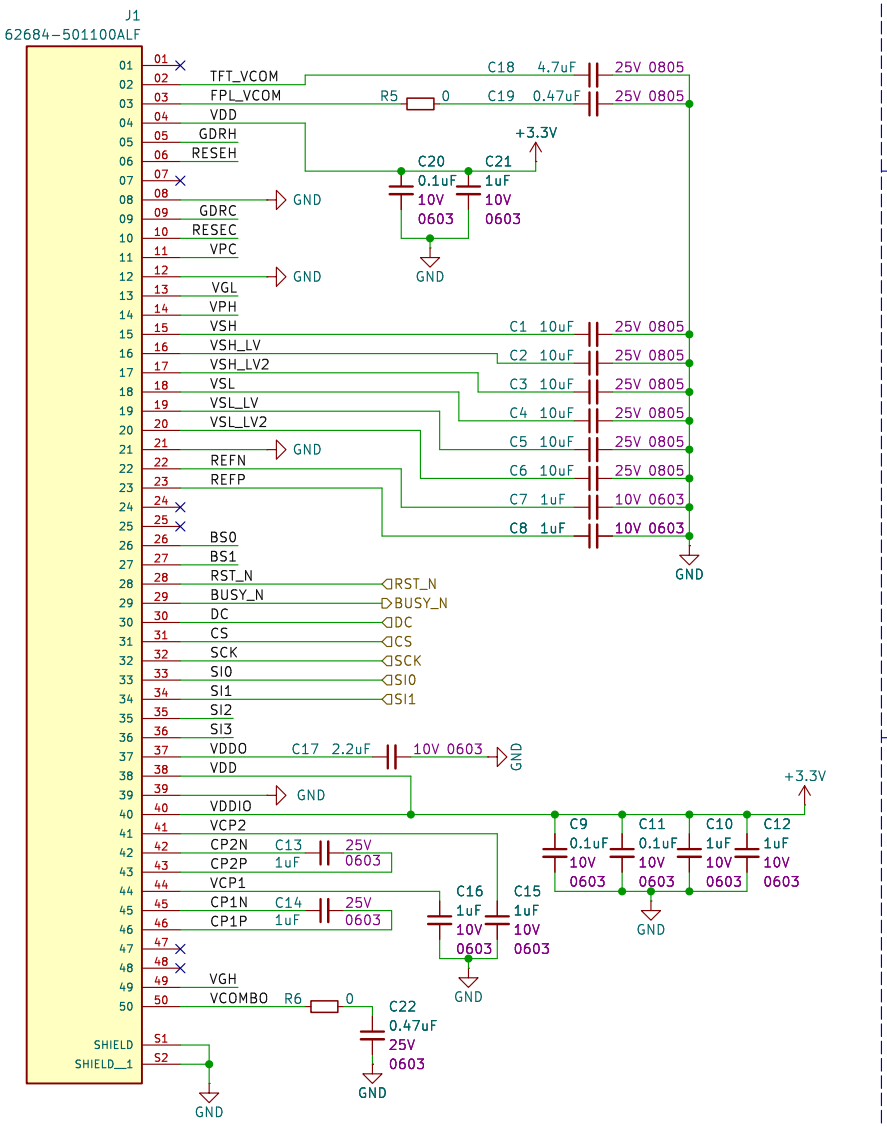

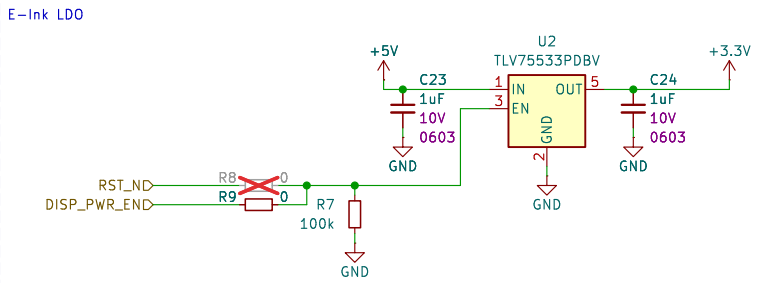

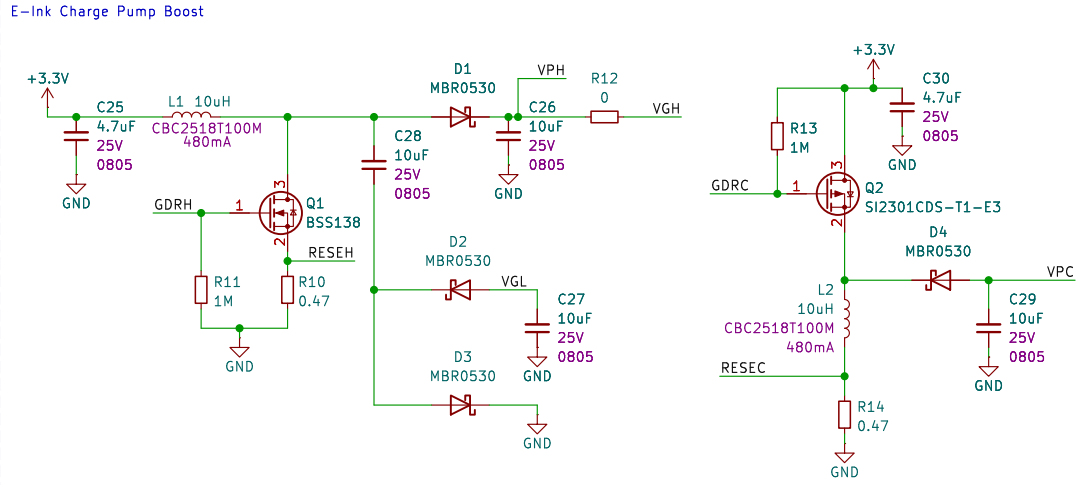

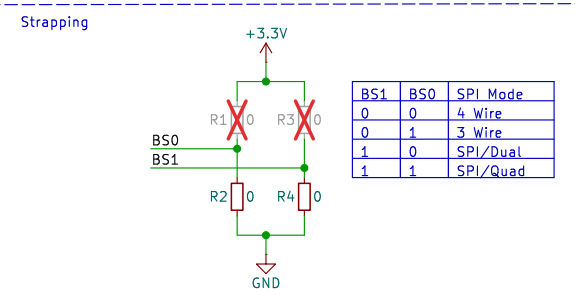

BS1	BS0	SPI Mode
0	0	4 Wire
0	1	3 Wire
1	0	SPI/Dual
1	1	SPI/Quad

Sheet: /epaper display (page 3)/
File: epaper-display.kicad_sch

Title: Everframe Mainboard

Size: A4	Date: 2025-11-24	**Rev: 1.0.0**
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