

A

B

C

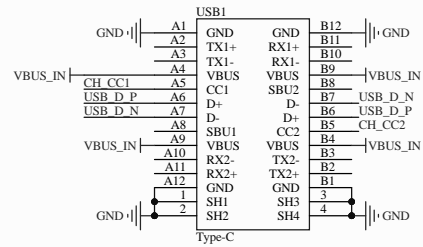
D

A

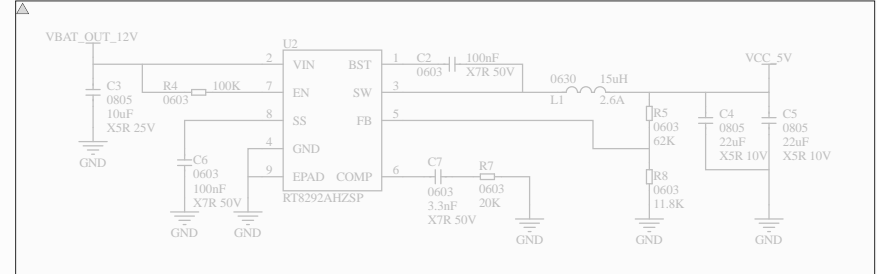
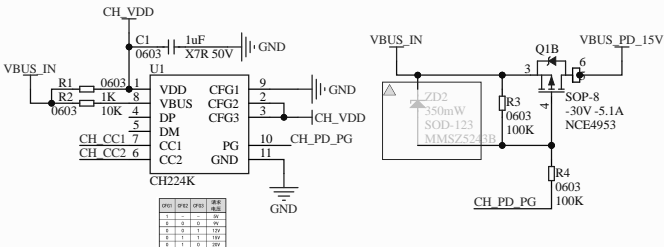
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C

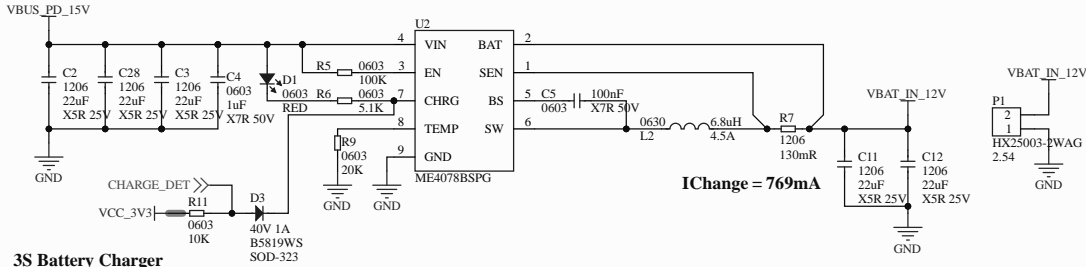
D



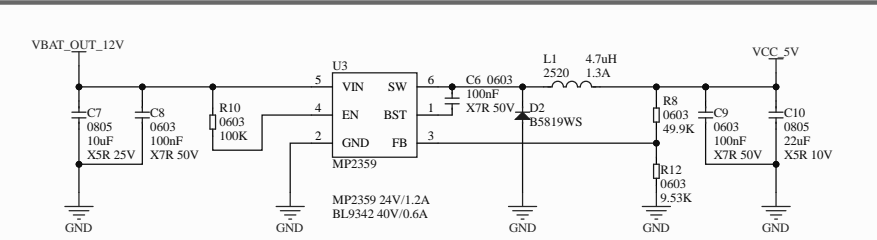
PD 15V



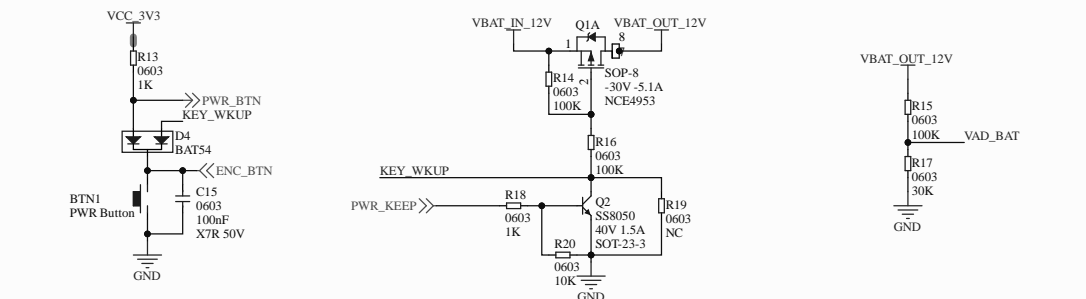
12V -> 5V@2A



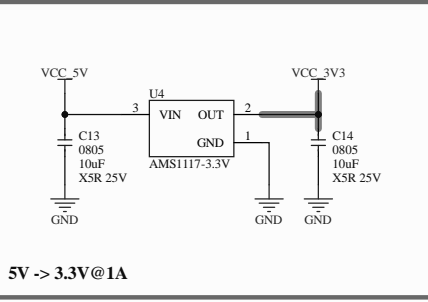
3S Battery Charger



12V -> 5V@1.2A



Power Switch



5V -> 3.3V@1A

- M3_HOLE1
- M3_HOLE2
- M3_HOLE3
- M3_HOLE4

Title		
Size	Number	Revision
A3		
Date:	1/14/2023	Sheet of
File:	D:\Project\...\[02] Power.SchDoc	Drawn By:

A

B

C

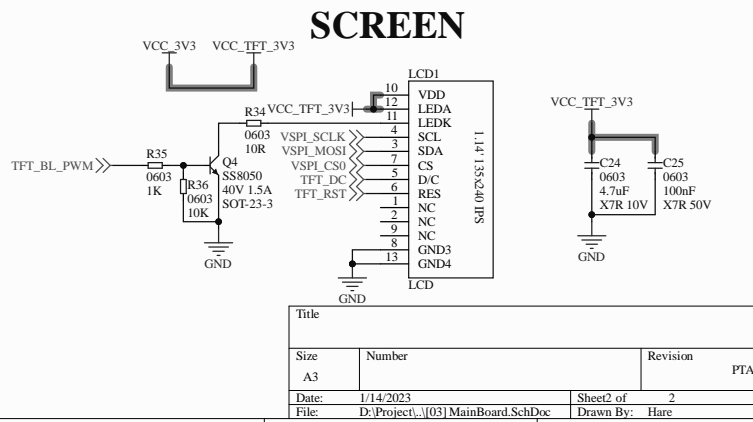
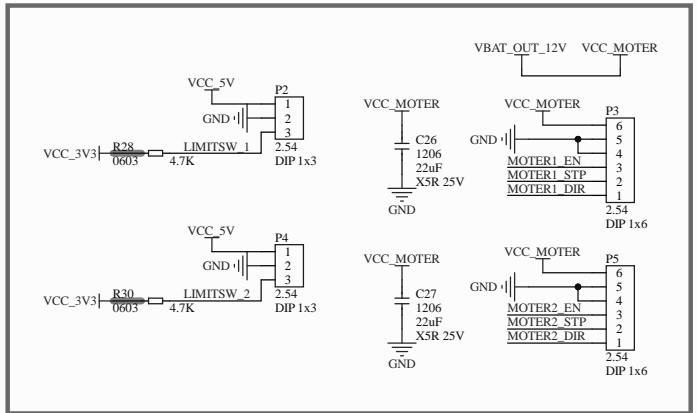
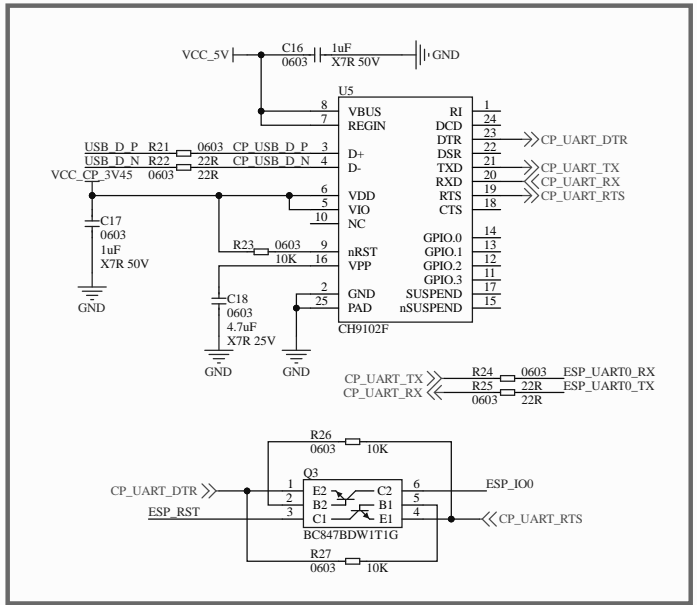
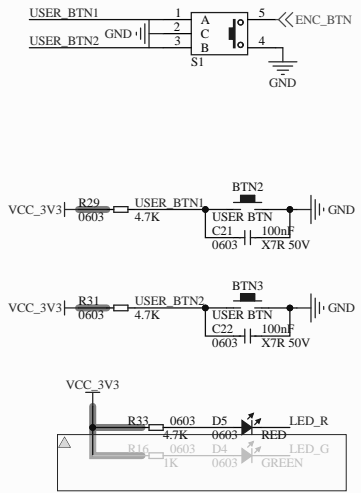
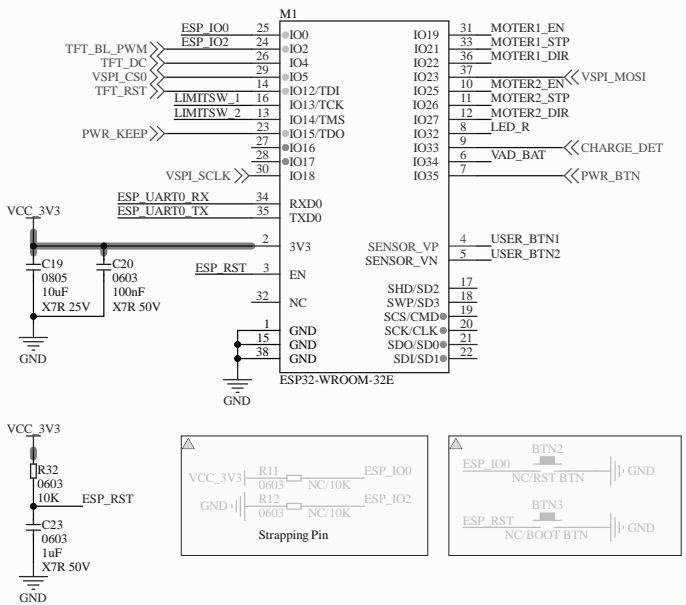
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A

B

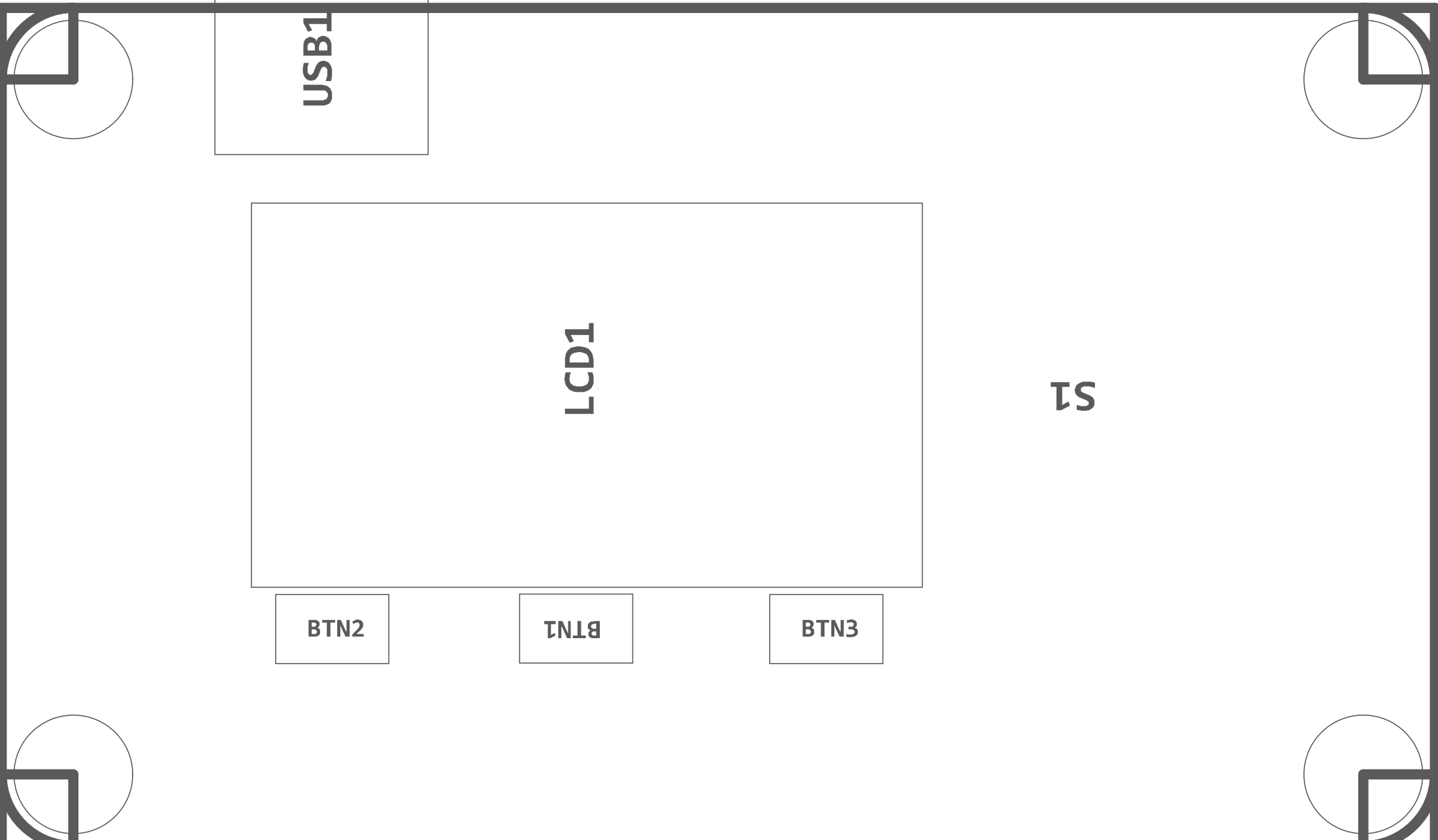
C

D



SCREEN

Title			
Size	Number	Revision	PTA
A3			
Date:	1/14/2023	Sheet2 of	2
File:	D:\Project\...\[03] MainBoard.SchDoc	Drawn By:	Hare



USB1

LCD1

S1

BTN2

BTN1

BTN3

Comment	Description	Designator	Footprint	LibRef	Quantity
PWR Button	Button	BTN1	BTN-4P-4.2*3.4*2.5	Button	1
USER BTN	Button	BTN2, BTN3	BTN-4P-4.2*3.4*2.5	Button	2
1uF	Capacitor	C1, C4, C16, C17, C23	CAP_0603	CAP	5
22uF	Capacitor	C2, C3, C11, C12, C26, C27, C28	CAP_1206	CAP	7
100nF	Capacitor	C5, C6, C8, C9, C15, C20, C21, C22, C25	CAP_0603	CAP	9
10uF	Capacitor	C7, C13, C14, C19	CAP_0805	CAP	4
22uF	Capacitor	C10	CAP_0805	CAP	1
4.7uF	Capacitor	C18, C24	CAP_0603	CAP	2
RED	LED	D1, D5	LED_0603	LED	2
B5819WS	Diode	D2, D3	SOD-323	Diode	2
BAT54		D4	SOT-23-3	Diode-2	1
4.7uH	Inductor	L1	IND_1008	IND	1
6.8uH	Inductor	L2	IND_P_0630	IND	1
LCD		LCD1	LCD-IPS-1.14-135x240-TOP	LCD_IPS_1.14_135x240	1
ESP32-WROOM-32E		M1	ESP-32	ESP32-WROOM-32	1
TestPoint	TestPoint	M3_HOLE1, M3_HOLE2, M3_HOLE3, M3_HOLE4	Hole_M3_PAD	TestPoint	4
HX25003-2WAG	Header	P1	XH_2-SLEEP	HDR1x2	1
DIP 1x3	Header	P2, P4	XH_3-sleep	HDR1x3	2
DIP 1x6	Header	P3, P5	XH_6-sleep	HDR1x6	2
NCE4953	Dual P-Channel MOSFET	Q1	SOP-8-P1.27	Dual_MOS-P	1
SS8050	Transistor	Q2, Q4	SOT-23-3	BJT_NPN	2
BC847BDW1T1G	Dual NPN Transistor	Q3	SC70-6	Dual_NPN	1
1K	Resistor	R1, R13, R18, R35	RES_0603	RES	4
10K	Resistor	R2, R11, R20, R23, R26, R27, R32, R36	RES_0603	RES	8
100K	Resistor	R3, R4, R5, R10, R14, R15, R16	RES_0603	RES	7
5.1K	Resistor	R6	RES_0603	RES	1
130mR	Resistor	R7	RES_1206	RES	1
49.9K	Resistor	R8	RES_0603	RES	1
20K	Resistor	R9	RES_0603	RES	1
9.53K	Resistor	R12	RES_0603	RES	1
30K	Resistor	R17	RES_0603	RES	1
NC	Resistor	R19	RES_0603	RES	1
22R	Resistor	R21, R22, R24, R25	RES_0603	RES	4
4.7K	Resistor	R28, R29, R30, R31, R33	RES_0603	RES	5
10R	Resistor	R34	RES_0603	RES	1
RotaryEncoder	Encoder	S1	RotaryEncoder	RotaryEncoder	1
CH224K	USB PD 等多快充协议受电芯片	U1	HSOP-10-P1.0	CH224K	1
ME4078BSPG	双节、三节开关型锂电池管理	U2	HSOP-8-P1.27	ME4078	1
MP2359		U3	SOT-23-6	MP2456	1
AMS1117-3.3V		U4	SOT-223-3	LM1117-3.3V	1
CH9102F	SINGLE-CHIP USB-TO-UART BRIDGE	U5	QFN-24-4.0X4.0-P0.5	CP2104	1
Type-C		USB1	USB-Type-C	USB-Type-C	1

R6
D1

R7

C11
C12

21

C26

R1
C1

R5
C4

U2

C5

R2

1N

C2

R9

R14
R3

Q1

C3

C28

R4
R19
R16
R18

D2

C8

C7

R17

R23
C17
R22
R21

Q2

R20
R18

L1

C6
C10

U3

R10
R12

R15

C9

R8

Q3

C24
C25
R34

R35
R36

C13

U4

C14

R24
R25

R27
Q0

C18

U5

C16

R33
D5

C27

M1

D4

C15

R28

R30
D3
R11
R13
C22
R29
C21
R32
C23
C20
C19