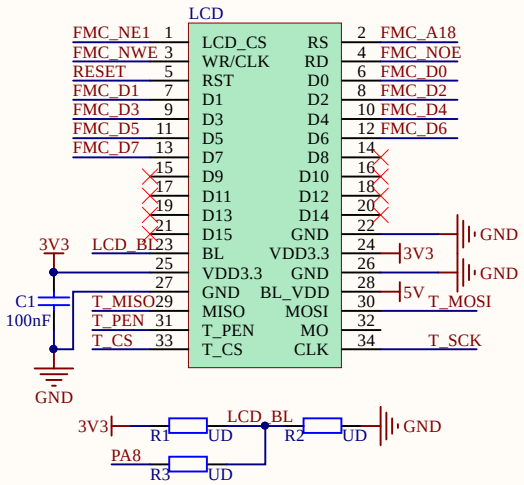

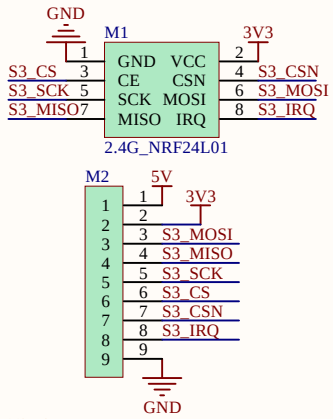

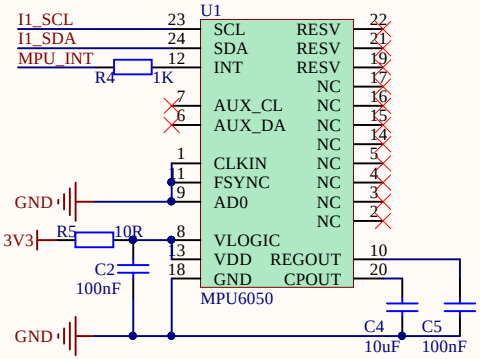

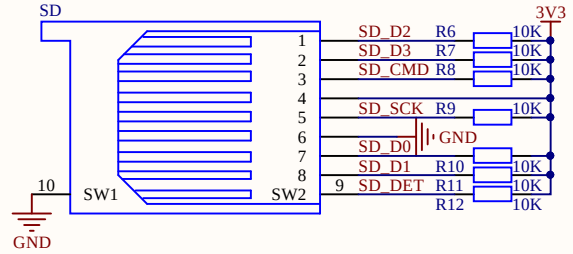

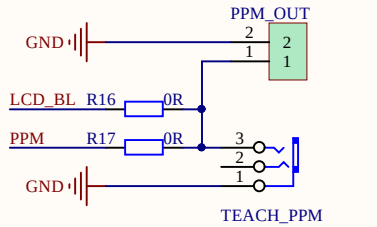

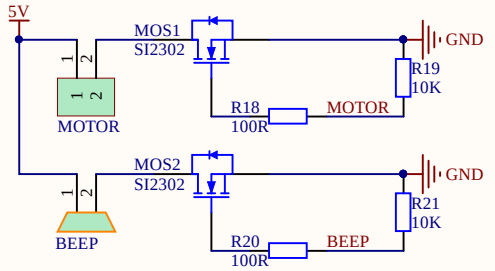

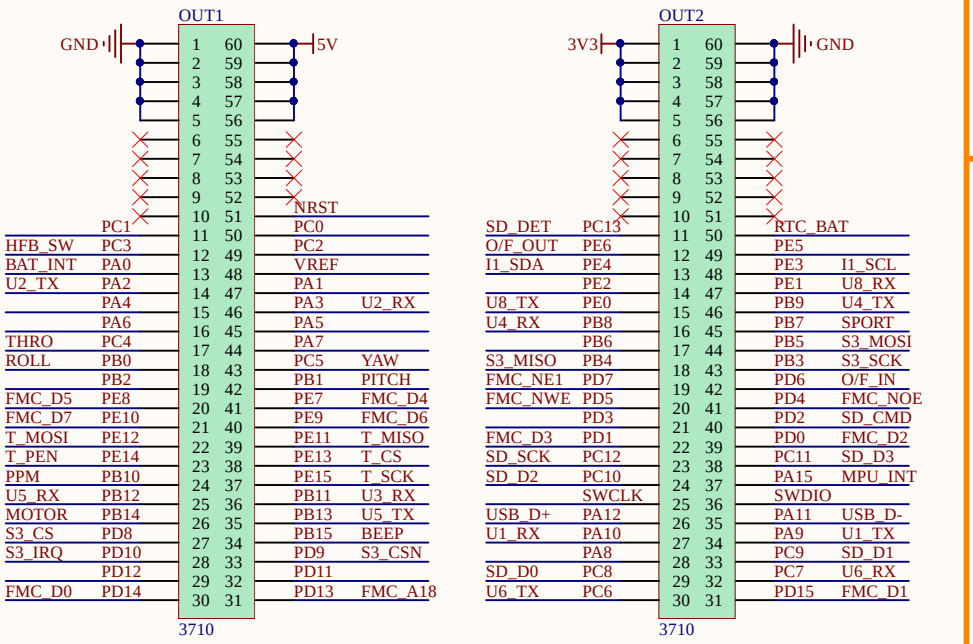

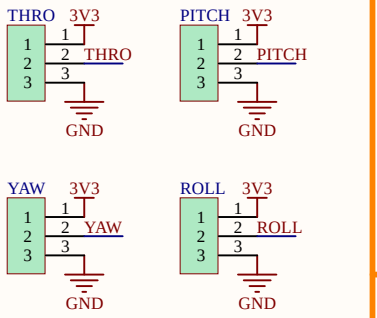

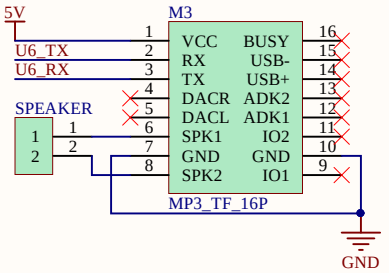

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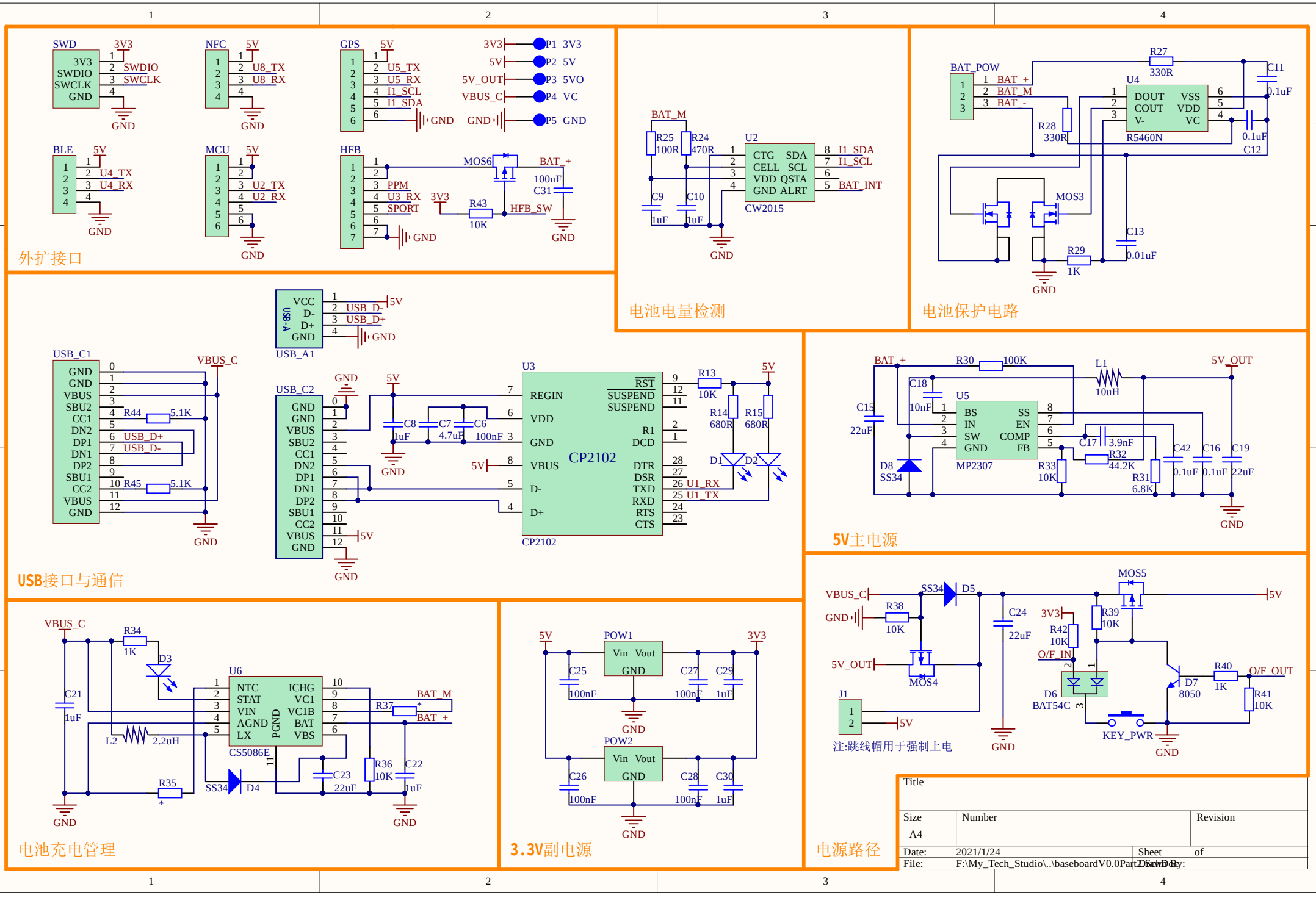
外扩接口
SWD
3V3
SWDIO
SWCLK
GND
NFC
5V
U8_TX
U8_RX
GPS
U5_TX
U5_RX
I1_SCL
I1_SDA
3V3
5V
5V_OUT
VBUS_C
GND
P1 3V3
P2 5V
P3 5VO
P4 VC
P5 GND
BLE
U4_TX
U4_RX
MCU
U2_TX
U2_RX
HFB
PPM
U3_RX
SPORT
MOS6
BAT_+
100nF
C31
R43
10K
HFB_SW
电池电量检测
BAT_M
R25
100R
R24
470R
U2
CTG SDA
CELL SCL
VDD QSTA
GND ALRT
I1_SDA
I1_SCL
BAT_INT
CW2015
C9
C10
1uF
电池保护电路
BAT_POW
BAT_+
BAT_M
BAT_-
R27
330R
C11
0.1uF
U4
DOUT VSS
COUT VDD
V- VC
R5460N
R28
330R
C12
MOS3
C13
0.01uF
R29
1K
USB接口与通信
USB_C1
VBUS_C
R44
5.1K
USB_D+
USB_D-
R45
USB_A1
USB-A
USB_C2
CP2102
REGIN
VDD
GND
VBUS
D-
D+
RST
SUSPEND
R1
DCD
DTR
DSR
TXD
RXD
RTS
CTS
U1_RX
U1_TX
C8
C7
4.7uF
C6
100nF
R13
10K
R14
680R
R15
680R
D1
D2
5V主电源
BAT_+
R30
100K
L1
10uH
5V_OUT
C18
10nF
C15
22uF
U5
BS SS
IN EN
SW COMP
GND FB
MP2307
C17
3.9nF
R32
44.2K
R33
10K
R31
6.8K
C42
C16
C19
0.1uF
22uF
D8
SS34
电池充电管理
VBUS_C
R34
1K
D3
C21
1uF
L2
2.2uH
U6
NTC ICHG
STAT VC1
VIN VC1B
AGND PGND BAT
LX VBS
CS5086E
R37
BAT_M
BAT_+
R35
SS34
D4
C23
22uF
R36
10K
C22
1uF
3.3V副电源
POW1
Vin Vout
GND
C25
100nF
C27
100nF
C29
1uF
POW2
C26
100nF
C28
100nF
C30
1uF
电源路径
VBUS_C
SS34
D5
MOS5
5V
GND
R38
10K
C24
22uF
3V3
R42
10K
R39
10K
O/F_IN
O/F_OUT
5V_OUT
MOS4
D6
BAT54C
D7
8050
R40
1K
R41
10K
J1
KEY_PWR
注:跳线帽用于强制上电
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Number
Revision
Date: 2021/1/24
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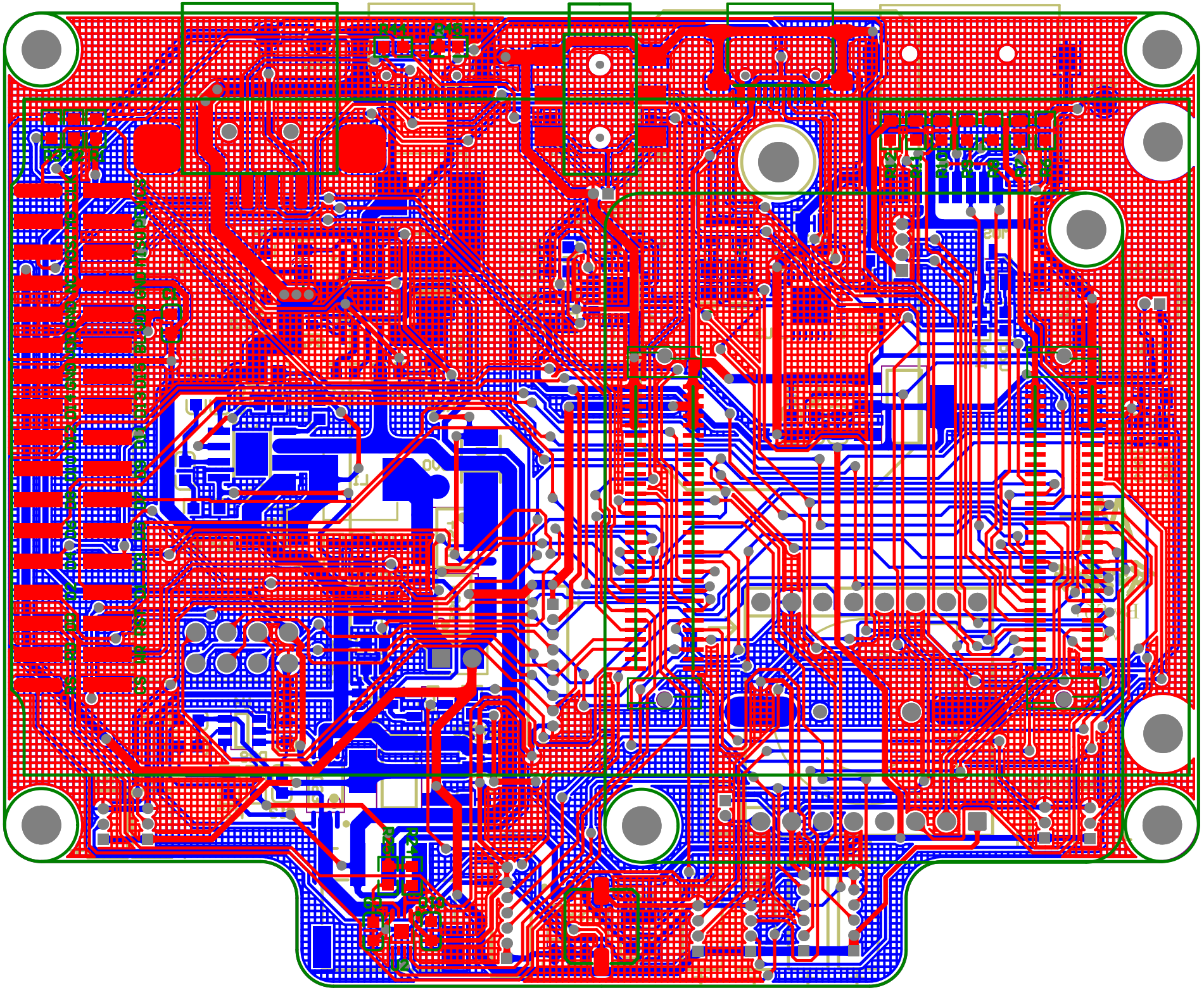

Bill of Materials

Bill of Materials For Project [baseboardV0.0.PrjPCB] (No PCB Document Selected)

Source Data From: baseboardV0.0.PrjPCB
Project: baseboardV0.0.PrjPCB
Variant: None

Creation Date: 2021/1/24 21:10:37
Print Date: 24-Jan-21 9:11:41 PM

Footprint	Comment	LibRef	Designator	Description	Quantity
XH2.54_3P_SMT_L	XH2.54_3P_SMT_T	XH2.54_3P_SMT_T	BAT_POW		1
BEEP_5020_SMT	BEEP_5020_SMT	BEEP_5020_SMT	BEEP		1
SH1.25MM_4P	SH1.25mm_4P	SH1.25mm_4P	BLE, NFC		2
0603_C	100nF	0603_CAP	C1, C2, C5, C6, C25, C26, C27, C28, C31		9
0603_C	10uF	0603_CAP	C4		1
0805_C	4.7uF	0805_CAP	C7		1
0603_C	1uF	0603_CAP	C8, C9, C10, C21, C22, C29, C30		7
0603_C	0.1uF	0603_CAP	C11, C12, C16, C42		4
0603_C	0.01uF	0603_CAP	C13		1
0805_C	22uF	0805_CAP	C15, C19, C23, C24		4
0603_C	3.9nF	0603_CAP	C17		1
0603_C	10nF	0603_CAP	C18		1
0805_LED	0805_LED	0805_LED	D1, D2, D3		3
DO214_SMC	SS34	SS34_DO214	D4, D5, D8		3
BAT54C	BAT54C	BAT54C	D6		1
SOT23	8050	NPN_SS8050_SOT23	D7		1
SH1.25MM_6P	SH1.25mm_6P	SH1.25mm_6P	GPS, MCU		2
SH1.25MM_7P	SH1.25mm_7P	SH1.25mm_7P	HFB		1
HDR1_2P	Header_2.54_2P	Header_2.54_2P	J1		1
KEY_S_6*6	KEY_S_6*6	KEY_S_6*6	KEY_PWR		1
0630_L	10uH	0630_L	L1		1
0630_L	2.2uH	0630_L	L2		1
LCD_3.5_480*320_SMT	LCD_3.5_480*320_SMT	LCD_3.5_480*320_SMT	LCD		1
2.4G_NRF24L01	2.4G_NRF24L01	2.4G_NRF24L01	M1		1
SH1.25MM_9P	SH1.25mm_9P	SH1.25mm_9P	M2		1
MP3_TF_16P	MP3_TF_16P	MP3_TF_16P	M3		1
SOT23	SI2302	MOSN_SI2302_SOT23	MOS1, MOS2		2
TSSOP-8	MOSN_8205A_TSSOP8	MOSN_8205A_TSSOP8	MOS3		1
SOIC8_MOS	MOSP_AO4419_SOIC8	MOSP_AO4419_SOIC8	MOS4, MOS5, MOS6		3
SH1.25mm_2P	SH1.25mm_2P	SH1.25mm_2P	MOTOR, PPM_OUT, SPEAKER		3
MT_SWD_1	SWD	MT_SWD_1	MTSWD		1
3710F060046G3FT01	3710	3710F_30*2pin	OUT1, OUT2		2
TEST_POINT_2mm	3V3	TEST_POINT_2mm	P1		1
TEST_POINT_2mm	5V	TEST_POINT_2mm	P2		1
TEST_POINT_2mm	5VO	TEST_POINT_2mm	P3		1
TEST_POINT_2mm	VC	TEST_POINT_2mm	P4		1
TEST_POINT_2mm	GND	TEST_POINT_2mm	P5		1
SH1.25mm_3P	pitch	SH1.25mm_3P	PITCH		1
SOT223	AMS1117_3.3	AMS1117_3.3	POW1, POW2		2
0603_R	UD	0603_RES	R1, R2, R3		3
0603_R	1K	0603_RES	R4, R29, R34, R40		4
0603_R	10R	0603_RES	R5		1
0603_R	10K	0603_RES	R6, R7, R8, R9, R10, R11, R12, R13, R19, R21, R33, R36, R38, R39, R41, R42, R43		17
0603_R	680R	0603_RES	R14, R15		2
0603_R	0R	0603_RES	R16, R17		2
0603_R	100R	0603_RES	R18, R20, R25		3
0603_R	470R	0603_RES	R24		1
0603_R	330R	0603_RES	R27, R28		2
0603_R	100K	0603_RES	R30		1
0603_R	6.8K	0603_RES	R31		1
0603_R	44.2K	0603_RES	R32		1
0603_R		0603_RES	R35, R37		2
0603_R	5.1K	0603_RES	R44, R45		2
SH1.25mm_3P	roll	SH1.25mm_3P	ROLL		1
CR1220_BATTERY	CR1220_BATTERY	CR1220_BATTERY	RTC_BAT		1
TF_card	TF_Card	TF_Card	SD		1
AUDIO_PJ313D	AUDIO_PJ313D	AUDIO_PJ313D	TEACH_PPM		1
SH1.25mm_3P	thro	SH1.25mm_3P	THRO		1
QFN24	MPU6050	MPU6050	U1		1
CW2015_TDFN	CW2015	CW2015_TDFN	U2		1
QFN28	CP2102	CP2102_QFN28	U3		1
SOT_23_6	R5460N	R5460N	U4	2-CELL PROTECTOR	1
SOIC8N	MP2307	MP2307	U5		1
ESOP10L	CS5086E	CS5086E	U6		1
USB_A_SMT	USB_A_SMT	USB_A_SMT	USB_A1		1
USB_C_16PIN_SMT	USB_C_16P_SMT	USB_C_16P_SMT	USB_C1, USB_C2		2
SH1.25mm_3P	yaw	SH1.25mm_3P	YAW		1
					129

Approved	Notes	