预留

P1 AUX

PB11	1	10	PB10
PB13	2	11	PB12
PB15	3	12	PB14
PA11	4	13	PA8
PB6	5	14	PA12
PB8	6	15	PB7
	7	16	PB9
PC13	8	17	PC14
PC15	9	18	

3V3
C6 104
GND

电源管理

3.7V-Lipo2S
U1 AMS1117
VIN GND VOUT
C1 106 C2 104
C3 104 C4 106
3V3
GND

3.7V-Lipo2S P3
POWER
GND

nRF24L01无线模块

P2 nRF24L01-Module
RC_CE 1 2 RC_NSS
RC_CLK 3 4 RC_MOSI
RC_MISO 5 6 RC_INT
7 8
3V3
C5 0.1uF
GND

摇杆电位器电路

P4
3V3
RT
stick
GND 3V3

P5
3V3
LE
stick
GND 3V3

STM32C8T6最小系统

U2B STM32F103C8T6
1 VBAT
24 VDD_1   VSS_1 23
36 VDD_2   VSS_2 35
48 VDD_3   VSS_3 47
9 VDDA   VSSA 8
GND

U2A STM32F103C8T6
RA	10	PA0-WKUP	PB0	18	RC_CE
LE	11	PA1	PB1	19	RC_INT
RT	12	PA2	PB2	20	BOOT1
LR	13	PA3	PB3	39	JTDO
RC_NSS	14	PA4	PB4	40	JNRST
RC_CLK	15	PA5	PB5	41	
RC_MISO	16	PA6	PB6	42	PB6
RC_MOSI	17	PA7	PB7	43	PB7
	29	PA8	PB8	45	PB8
CPU_TX	30	PA9	PB9	46	PB9
CPU_RX	31	PA10	PB10	21	PB10
	32	PA11	PB11	22	PB11
	33	PA12	PB12	25	PB12
JTMS	34	PA13	PB13	26	PB13
JTCK	37	PA14	PB14	27	PB14
JTDI	38	PA15	PB15	28	PB15
	2	PC13-TAMPER-RTC	BOOT0	44	BOOT0
	3	PC14-OSC32_IN	NRST	7	NRST
	4	PC15-OSC32_OUT			
	5	PD0-OSC_IN			
	6	PD1-OSC_OUT			

3V3
R1 10K
NRST
C16 104
P6 ResetKey
GND

3V3
104 104 104 104
C7 C8 C9 C10
GND

3V3
L1 LED
10K R2
GND

C11 22pF X1 8M
C12 22pF
GND

JTAG 串口烧录 程序 调试参数

3V3
P8 STSRT_UP
BOOT0 1 2 BOOT1
3 4
5 6
GND

3V3
R3 10K R4 10K R5 10K R6 10K R7 10K

P7 JTAG
JNRST	1	2	
JTDI	3	4	
JTMS	5	6	
JTCK	7	8	
	9	10	
	11	12	
JTDO	13	14	
NRST	15	16	
	17	18	
	19	20	
GND

R8 4.7K
GND

U3 CH340G
GND VCC
CPU_RX TXD R232
CPU_TX RXD RTS#
V3 DTR#
UD+ DCD#
UD- RI#
XI DSR#
XO CTS#
D+
D-
3V3
C13 0.1uF
GND

C14 22pF X2 12M
C15 22pF
GND

U4 miniUSB
1 V+
D- 2 D-
D+ 3 D+
4 ID
5 GND
3V3

Comment	Description	Designator	Footprint	LibRef	Quantity
106		C1, C4	LC-0402	Cap-0402	2
104		C2, C3, C6, C7, C8, C9, C10, C16	LC-0402	Cap-0402	8
0.1uF		C5, C13	LC-0402	Cap-0402	2
22pF		C11, C12, C14, C15	LC-0402	Cap-0402	4
LED		L1	0603_LED_S1	LED	1
AUX	Header, 9-Pin, Dual row	P1	HDR2X9_CEN	Header 9X2A	1
nRF24L01-Module	Header, 4-Pin, Dual row	P2	HDR2X4	Header 4X2	1
POWER	Header, 2-Pin	P3	HDR1X2	Header 2	1
stick		P4, P5	Stick	stick	2
ResetKey		P6	ResetKeyC5382	ResetKey_C5382	1
JTAG	Header, 10-Pin, Dual row	P7	HDR2X10	Header 10X2	1
STSRT_UP	Header, 3-Pin, Dual row	P8	HDR2X3	Header 3X2	1
10K		R1, R2, R3, R4, R5, R6, R7	Res-0402	Res-0402	7
4.7K		R8	Res-0402	Res-0402	1
AMS1117		U1	AMS1117	AMS1117	1
STM32F103C8T6	ARM Cortex-M3 32-bit MCU, 64 KB Flash, 20 KB Internal RAM, 37 I/Os, 48-pin LQFP, -40 to 85 degC, Tray	U2	STM-LQFP48_L	STM32F103C8T6	1
CH340G		U3	LC-SOP-16_150mil	CH340G	1
miniUSB		U4	miniUSB	miniUSB	1
8M		X1	LC-HC-49SMD	49SMD	1
12M		X2	LC-HC-49SMD	49SMD	1