STM32F103C8T6

STM32F103C8T6
U1
STM32F103CBT6/C8T6

GND
3V3

48 VDD3
47 K9 VSS3
46 K8 PB9
45 BOOT0 PB8
44 K7 BOOT0
43 K6 PB7
42 K5 PB6
41 K4 PB5
40 K3 PB4
39 SWR PB3
38 PA15
37 SWCLK PA14

1 VBAT
2 PC13
3 PC14
4 PC15
5 PD0
6 PD1
7 NRST
8 VSSA
9 VDDA
10 PA0 AL1
11 PA1 AL2
12 PA2 AL3

36 VDD2 3V3
35 VSS2 SWDIO GND
34 PA13
33 PA12
32 PA11
31 PA10 RX
30 PA9 TX
29 PA8 SWL
28 PB15 KR3
27 PB14 KR2
26 PB13 KR1
25 PB12 KL3

13 PA3
14 PA4
15 PA5
16 PA6
17 PA7
18 PB0
19 PB1
20 PB2
21 PB10
22 PB11
23 VSS1
24 VDD1

AL4 AR1 AR2 AR3 AR4 K1 K2 BOOT1 KL1 KL2
3V3 GND

10PF C1
Y1 32.768K
10PF C2
C3 10PF
Y2 8Mhz
C4 10PF
GND

NRST
3V3

KEY_RST
3V3 R1 10K NRST C9 104 GND

5V POW 3V3
Vin Vout
GND
C5 4.7uF C6 104 C7 4.7uF C8 104
GND

3V3 R3 100K BOOT0 R4 100K
R5 100K BOOT1 R6 100K
GND

SWD 3V3
1 2 3 4
SWDIO
SWCLK
GND

3V3
C10 104
C11 104
C12 104
C13 104
LED R2 680R
GND

外扩接口

UART 5V
1 2 3 4
TX
RX
GND

AL1 3V3
1 2 3
AL1
GND

AR1 3V3
1 2 3
AR1
GND

KL1 3V3
1 2 3
KL1
KL2

KR1 3V3
1 2 3
KR1
KR2

AL2 3V3
1 2 3
AL2
GND

AR2 3V3
1 2 3
AR2
GND

KL2 3V3
1 2 3
KL3
GND

KR2 3V3
1 2 3
KR3
GND

3V3
K1 K1
K2 K2
K3 K3
K4 K4
K5 K5
K6 K6
K7 K7
K8 K8
K9 K9

SL1 3V3 R7 10K
1 2 3
AL3
R8 10K
GND

SR1 3V3 R11 10K
1 2 3
AR3
R12 10K
GND

SML 3V3
1 2 3
SWL
GND

SMR 3V3
1 2 3
SWR
GND

MCU 5V
1 2 3 4 5 6
RX
TX
GND

SL2 3V3 R9 10K
1 2 3
AL4
R10 10K
GND

SR2 3V3 R13 10K
1 2 3
AR4
R14 10K
GND

按键板

KL1
1 2 3
KEYL1
1 2 3 4
KEYL2
1 2 3 4

KR1
1 2 3
KEYR1
1 2 3 4
KEYR2
1 2 3 4

KL2
1 2 3
KEYL3
1 2 3 4

KR2
1 2 3
KEYR3
1 2 3 4

Title
Size A4
Number
Revision
Date: 2021/1/25
Sheet of
File: F:\My_Tech_Studio\..\keyboardV0.1.Sch Drawn By:

KEYL3

KEYR3

KEYL1

KEYR1

KEYL2

KEYR2

K1

K7

K3

K4

K2

K8

K5

K6

K9

SML

SMR

Comment	Description	Designator	Footprint	LibRef	Quantity
SH1.25mm_3P		AL1, AL2, AR1, AR2, KL1, KL1_, KL2, KL2_, KR1, KR1_, KR2, KR2_, SL1, SL2, SR1, SR2	SH1.25mm_3P	SH1.25mm_3P	16
10PF		C1, C2, C3, C4	0603_C	0603_CAP	4
4.7uF		C5, C7	0603_C	0603_CAP	2
104		C6, C8, C9, C10, C11, C12, C13	0603_C	0603_CAP	7
KEY_S_6*6		K1, K2, K3, K4, K5, K6, K7, K8, K9	KEY_S_6*6	KEY_S_6*6	9
KEY_SMT		KEY_RST	KEY_SMT	KEY_SMT	1
KEY		KEYL1, KEYL2, KEYL3, KEYR1, KEYR2, KEYR3	KEY_6*6	KEY_6*6	6
0603_LED		LED	0603_LED	0603_LED	1
SH1.25mm_6P		MCU	SH1.25MM_6P	SH1.25mm_6P	1
AMS1117_3.3		POW	SOT223	AMS1117_3.3	1
10K		R1, R7, R8, R9, R10, R11, R12, R13, R14	0603_R	0603_RES	9
680R		R2	0603_R	0603_RES	1
100K		R3, R4, R5, R6	0603_R	0603_RES	4
SWITCH		SML, SMR	SWITCH_SS12F44	SWITCH_SS12F44	2
Header_2.54_4P		SWD, UART	HDR1_4P	Header_2.54_4P	2
STM32F103C8T6		U1	LQFP48	STM32F103C8T6	1
32.768K		Y1	XTAL_32.768_3215_2	XTAL_32.768_3215_2	1
8Mhz		Y2	XTAL_5032_2	XTAL_8MHz_5032_2	1