U1

TRSTOUT	10	PA0-WKUP	PB0	18	TDIIN
TRESOUT	11	PA1	PB1	19	TRSTIN
TRESIN	12	PA2	PB2/BOOT1	20	R1 10K GND
TCKIN	13	PA3	PB3/JTDO	39	
TMSIN	14	PA4	PB4/JNTRST	40	
TCKOUT	15	PA5	PB5	41	
TDOIN	16	PA6	PB6	42	
TMSOUT	17	PA7	PB7	43	

STM32F103C8T6

SWD下载固件

V3.3

| C4 4.7uF | C5 1uF | C6 0.1uF | C7 0.1uF | C8 0.1uF | C9 0.1uF |

GND

TRSTIN — R2 100R — TRSTOUT
TDIIN — R3 100R — TDIOUT
TMSIN — R4 100R — TMSOUT
TCKIN — R5 100R — TCKOUT
TRESIN — R6 100R — TRESOUT
TDOIN — R7 10K — V3.3

LED — D1 — R9 510R — V3.3
LED1

J1 CON3 — VCC_CON — V3.3 — V5.0

J2 CON3 — JTMS — JTCK — GND

J3 CON4 — GND — TMSIN — TCKIN — VCC_CON

USB1
VBUS
D-
D+
GND
Micro usb

Vbus — R12 0R — V5.0 — U2 AMS1117-3.3 — V3.3 — R13 510R — PWR1 RED — GND

Title		
Size A3	Number	Revision
Date: 2018/1/9		Sheet of
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Comment	Description	Designator	Footprint	LibRef	Quantity
22pF	SMT电容	C1, C2, C14, C15	C0402	CAP, 电容	4
0.1uF	SMT电容	C3, C6, C7, C8, C9, C11, C13	C0402	C, CAP	7
4.7uF	SMT电容	C4	C0603	CAP	1
1uF	SMT电容	C5	C0402	CAP	1
10uF		C10, C12	C0603	CAP	2
LED1	Typical INFRARED GaAs LED	D1	LED0603-green	LED0	1
CON3	Connector	J1, J2	HEADER-3	CON3	2
CON4	Connector	J3	HEADER-4	CON4	1
RED		PWR1	LED0603-green	LED1	1
10K	SMT电阻	R1, R7, R10, R11	R0402 -1	RES1	4
100R	SMT电阻	R2, R3, R4, R5, R6	R0402 -1	RES1	5
1M	SMT电阻	R8	R0402 -1	RES1	1
510R	SMT电阻	R9, R13	R0402 -1	RES1	2
0R	SMT电阻	R12	R0402 -1	RES1	1
22R	SMT电阻	R14, R15	R0402 -1	RES1	2
1.5K	SMT电阻	R16	R0402 -1	RES1	1
STM32F103C8T6	STM32 ARM-based 32-bit MCU with 64 Kbytes Flash, 48-pin LQFP, Industrial Temperature	U1	LQFP48S	STM32F103C8T6	1
AMS1117-3.3		U2	AMS1117	AMS1117	1
Micro usb		USB1	MICRO_USB_9	USB joggle	1
XTAL	Crystal Oscillator	Y1	XTAL	XTAL	1