STM32F103RCT6 (U1)

VBAT — VDD / 64 VCC3.3
PC13/ANT1 — VSS / 63 GND
PC14/OSC32 — PB9/TIM4_CH4/SDIO_D5 / 62 PB9
PC15/OSC32 — PB8/TIM4_CH3/SDIO_D4 / 61 PB8
PD0/OSCIN — BOOT0 / 60 BOOT0
PD1/OSCOUT — PB7/I2C1_SDA/TIM4_CH2 / 59 PB7
NRST — PB6/I2C1_SCL/TIM4_CH1 / 58 PB6
PC0/ADC10 — PB5/I2C1_SMBA/SPI3_MOSI/I2S3_SD / 57 PB5
PC1/ADC11 — PB4/JNTRST/SPI3_MISO / 56 PB4
PC2/ADC12 — PB3/JTDO/SPI3_SCK/I2S3_CK / 55 PB3
PC3/ADC13 — PD2/TIM3_ETR/U5_RX/SDIO_CMD / 54 PD2
VSSA — PC12/U5_TX/SDIO_CK / 53 PC12
VDDA — PC11/U4_RX/SDIO_D3 / 52 PC11
PA0/WKUP/ADC0/TIM2_CH1_ETR/TIM5_CH1/TIM8_ETR — PC10/U4_TX/SDIO_D2 / 51 PC10
PA1/ADC1/TIM2_CH2/TIM5_CH2 — PA15/JTDI/SPI3_NSS/I2S3_WS / 50 PA15
PA2/U2_TX/ADC2/TIM2_CH3/TIM5_CH3 — PA14/JTCK/SWCLK / 49 PA14
PA3/U2_RX/ADC3/TIM2_CH4/TIM5_CH4 — VDD / 48 VCC3.3
VSS — VSS / 47 GND
VDD — PA13/JTMS/SWDIO / 46 PA13
PA4/SPI1_NSS/ADC4/DAC1 — PA12/CAN_TX/USBDP/TIM1_ETR / 45 PA12
PA5/SPI1_SCK/ADC5/DAC2 — PA11/CAN_RX/USBDM/TIM1_CH4 / 44 PA11
PA6/SPI1_MISO/ADC6/TIM3_CH1/TIM8_BKIN — PA10/U1_RX/TIM1_CH3 / 43 PA10
PA7/SPI1_MOSI/ADC7/TIM3_CH2/TIM8_CH1N — PA9/U1_TX/TIM1_CH2 / 42 PA9
PC4/ADC14 — PA8/TIM1_CH1/MCO / 41 PA8
PC5/ADC15 — PC9/TIM8_CH4/SDIO_D1 / 40 PC9
PB0/ADC8/TIM3_CH3/TIM8_CH2N — PC8/TIM8_CH3/SDIO_D0 / 39 PC8
PB1/ADC9/TIM3_CH4/TIM8_CH3N — PC7/I2S3_MCK/TIM8_CH2/SDIO_D7 / 38 PC7
PB2/BOOT1 — PC6/I2S2_MCK/TIM8_CH1/SDIO_D6 / 37 PC6
PB10/I2C2_SCL/U3_TX — PB15/SPI2_MOSI/I2S2_SD/TIM1_CH3N / 36 PB15
PB11/I2C2_SDA/U3_RX — PB14/SPI2_MISO/TIM1_CH2N / 35 PB14
VSS — PB13/SPI2_SCK/I2S2_CK/TIM1_CH1N / 34 PB13
VDD — PB12/SPI2_NSS/I2S2_WS/I2C2_SMBAI/TIM1_BKIN / 33 PB12

TFT1 — NT35510_LCD (TFT4.3')
ESP8266 (U7)
GT9147 (J3) FPC-8P-0.5
MPU6050 (U3)
TP4056
CAT6219-330TD (U2)
MP3302DJ (U16) — LCD
W25Q128 (U4)
24C02 (U5)
TF_CARD (SD)
USB (H5) Header 4
ESP8266

Y1 8MHz, C1 22pF, C2 22pF
Y2 32.768K, C3 6pF, C4 6pF
D1 1N4148
R3 10K, C5 104, RST

Number
Revision
A4
Title
Date: 2019/11/11
File: C:\Users\..\NEW_MINI.SchDoc
Sheet of
Drawn By:

Comment	Description	Designator	Footprint	LibRef	Quantity
22pF		C1, C2	C 0603_M	CAP	2
6pF		C3, C4	C 0603_M	C	2
104		C5, C6, C7, C8, C9, C10, C13, C15, C18, C20, C29, C31, C36, C66, C100, C101	C 0603_M	C, CAP	16
10uF		C11, C14, C16, C19, C24, C25, C65, C97, C102	C 0603_M	C, CAP	9
103		C12	C 0603_M	C	1
1uF		C98, C105	C 0603_M	C	2
TP4056		CHG	SOP8_M	Component_1	1
1N4148		D1	DIODE_SOP	D	1
MBR0520	1N4148	D3	SOD-123	D	1
LED	Typical RED, GREEN, YELLOW, AMBER GaAs LED	DS_G	LED 0805G	LED2	1
LED	Typical RED, GREEN, YELLOW, AMBER GaAs LED	DS_R	LED 0805R	LED2	1
TP7	测试点	GND	TP-1.5	TEST-POINT	1
Header 4	Header, 4-Pin	H1, H5	HDR2.54-LI-4P	Header 4	2
FPC-8P-0.5	FPC-8P-0.5mm	J3	FPC-8P	FPC-8	1
S-KEY-SMD-324225	KEY,SMD,324225	K1, K2, RST	KEY-SOP324225	S-KEY-SMD-324225	3
4.7uH		L7	L_SOP4	L	1
RED	Typical RED, GREEN, YELLOW, AMBER GaAs LED	LED1, LED2	LED 0805R	LED2	2
BUTTON_DIP3	拨动开关SS-12F44	POWER	MSK-12C01-07	BUTTON_DIP3	1
10R		R1, R11, R12, R44, R47	R 0603_M	R	5
10K		R2, R3, R4, R5, R6, R7, R8, R45	R 0603_M	R	8
4.7K		R9, R10	R 0603_M	R	2
510R		R13, R14	R 0603_M	R	2
47K		R15, R16, R17, R18	R 0603_M	R	4
0.4R		R19	R 0603_M	R	1
4K		R20	R 0603_M	R	1
510		R22, R24	R 0603_M	R	2
1M		R23	R 0603_M	R	1
1.5K		R35	R 0603_M	R	1
0R		R43	R 0603_M	R	1
100K		R46	R 0603_M	R	1
1K		R55, R56	R 0603_M	R	2
TFT4.3'	4.3寸,电容/电阻触摸,分辨率:480*800	TFT1	TFT4.3'	TFT4.3'	1
SD-MICRO-TF	SD,MICRO,TF	TF_CARD	SD-MICRO-TF	SD-MICRO-TF	1
STM32F103RCT6		U1	LQFP_64_M	STM32F103RDT6	1
CAT6219-330TD	3.3V 500mA LDO	U2	SOT-23-5	CAT6219-330TD	1
MPU6050	9轴运动处理传感器	U3	QFN24	MPU6050	1
W25Q128	W25X16;SST25VF016;MX25L1605	U4	SOIC-8	W25X16	1
24C02		U5	SOP-8	24C256	1
ESP8266		U7	ESP_12E	ESP8266	1
MP3302DJ	LCD背光IC	U16	SOT-23-5	MP3302	1
J-MICRO-USB-5S	Micro USB 5.9有柱脚长1.25加长针	USB	USB-AB-5S	J-MICRO-USB-5S	1
TP6	测试点	VBAT	TP-1.5	TEST-POINT	1
8MHz	XTAL,3215,8MHz	Y1	Y-XTAL-3215-3P	Y-3215-8M	1
32.768K	Crystal Oscillator	Y2	OSC 3215-2P	XTAL	1