Reserve a 5V input interface with a connector pitch of 2.54mm

预留5V输入接口，连接器间距2.54mm

ISP serial port programming interface

供电稳压供电
stable regulated power supply

ISP串口下载程序接口

复位按键
Reset button

PA13,14 removed

JTAG/SWD调试接口
JTAG/SWD debugging interface

power indicator light

供电指示灯

CPU简介
STM32F407VET6
RAM：196K   FLASH：512K
内核：ARM 32位的Cortex-M3 CPU
最高168MHz工作频率

TFT液晶屏接口
TFT LCD Interface

LED Indicator light

LED指示灯

用户按键
User button

internal pins

BOOT0	BOOT1	启动方式
0	无关	用户闪存
1	0	ISP下载模式
1	1	内部RAM

STM32工作模式已经默认接地：通过R7和R8接地
正常工作，跳线帽不用插，如果需要其他工作模式可
以改换跳线帽插方式，板子默认都带跳线帽
跳线帽为了方便板子携带，默认插到闪存模式

STM32工作模式选择
STM32 operating mode is already grounded by default: connected to ground through R7 and R8.
For normal operation, no jumper cap is needed. If other operating modes are required, the jumper cap configuration can be changed.
The board comes with jumper caps by default.
For convenient transport, the jumper cap is initially placed in Flash mode.

RTC backup battery

实时时钟备用电池

External Storage FLASH

外部存储FLASH

wireless module interface

NRF2401无线模块接口

STM32-USB Slave接口
interface

预留IO接口
Reserved IO interface

Title
Size A2   Number   Revision
Date: 2016-1-5   Sheet of
File: C:\Documents and Settings\..\STM32_F4..\Drawn By:

24,24

85.10mm

72.45mm

USB-SLAVE

JTAG

SD_Card

NRF24L01

STM32F4XX

FLASH

BAT

TFT

https://os.mbed.com/users/hudakz/code/STM32F407VET6_Hello/

most useful so far

Comment	Description	Designator	Footprint	LibRef	Quantity
BAT		B1	BAT	BATTERY	1
104	Capacitor, Capacitor, Capacitor, Capacitor, Capacitor, Capacitor, Capacitor, Capacitor, Capacitor, Capacitor (Semiconductor SIM Model), [NoValue], Capacitor	C1, C3, C4, C6, C7, C12, C13, C14, C15, C16, C17, C19, C20, C23	RC0603	Cap, CAP, CAP, CAP, Cap, Cap, Cap, Cap, Cap, Cap, Cap, Cap Semi, CAP, Cap	14
106	[NoValue], [NoValue], Capacitor, Capacitor, Capacitor, Capacitor	C2, C5, C18, C21, C22, C24	RC0805	ELECTRO2, ELECTRO2, Cap, Cap, Cap, Cap	6
12P		C8, C9	RC0603	CAP	2
22P	Capacitor	C10, C11	RC0603	CAP	2
LED		D1, D2, D3	LED0805	LED	3
Header 16X2	Header, 16-Pin, Dual row	J1	IDE2X16	Header 16X2	1
Header 24X2	Header, 24-Pin, Dual row	J2, J3	IDE2X24	Header 24X2	2
usb		J4	Mini_USB	usb	1
ISP_COM	Header, 4-Pin	J6	HDR1X4	Header 4	1
NRF2401	Header, 4-Pin, Dual row	JP2	IDE2X4	Header 4X2	1
SW-PB		K0, K1, K_UP, RST	SW-SPST	SW-PB	4
ARM_JTAG	JTAG	P1	JTAG-20P	JTAG	1
BAT54C		Q1	SOT-23-BAT54C	BAT54C	1
PNP	PNP Bipolar Transistor	Q2	PNP_SOT23	PNP	1
10K	[NoValue], [NoValue], [NoValue], [NoValue], Resistor, Resistor, Resistor, Resistor, Resistor, Resistor, Resistor, Resistor, [NoValue], Resistor, Resistor, Resistor, Resistor, Resistor	R1, R2, R3, R4, R6, R7, R8, R9, R12, R16, R20, R24, R26, R27, R28, R29	RC0603	RES, RES, RES, RES, Res2, Res2, Res2, Res2, Res2, Res2, RES, Res2, Res2, Res2, Res2, Res2	16
510R	Resistor	R5, R13, R14, R23, R33	RC0603	Res2	5
1M	Resistor	R10	RC0603	Res2	1
0R	Resistor	R11, R34, R35	RC0603	Res2	3
1.5K		R17, R21, R30, R32	RC0603	RES	4
22		R18, R19	RC0603	RES	2
22R		R22	RC0603	RES	1
500mA		R25	RC0805	RES	1
NC		R31	RC0603	RES	1
AMS1117-3.3V		U1	SOT-223	11	1
STM32F407VET6		U2		STM32F407VET6	1
W25Q16		U3	SOP8L	W25X16	1
MiniSD		U5	TF_SD	MiniSD	1
32.768K	晶振	Y1	JZ32768	CRYSTAL	1
8M	Crystal	Y2	49S_SMD	CRYSTAL	1