板上資源：

1 1 路電源指示燈 2 路 LED 指示燈（接的普通 IO 口）

2 外擴 TF-SD 卡，方便 SD 卡實驗

3 1 路重定按鍵 2 路獨立按鍵 1 路喚醒按鍵

4 STM32F103Zx 晶片用的 IO 引腳全部引出

5 3 路下載介面 ISP 串口下載介面 + SLINK 模擬 介面 + JTAG 模擬介面

6 外擴 1 路 NF24C01 無線模組介面

7 外擴 AT24C02 存儲晶片 方便做 IIC 實驗

8 外擴 W25*16 flash 晶片，方便做 SPI 實驗

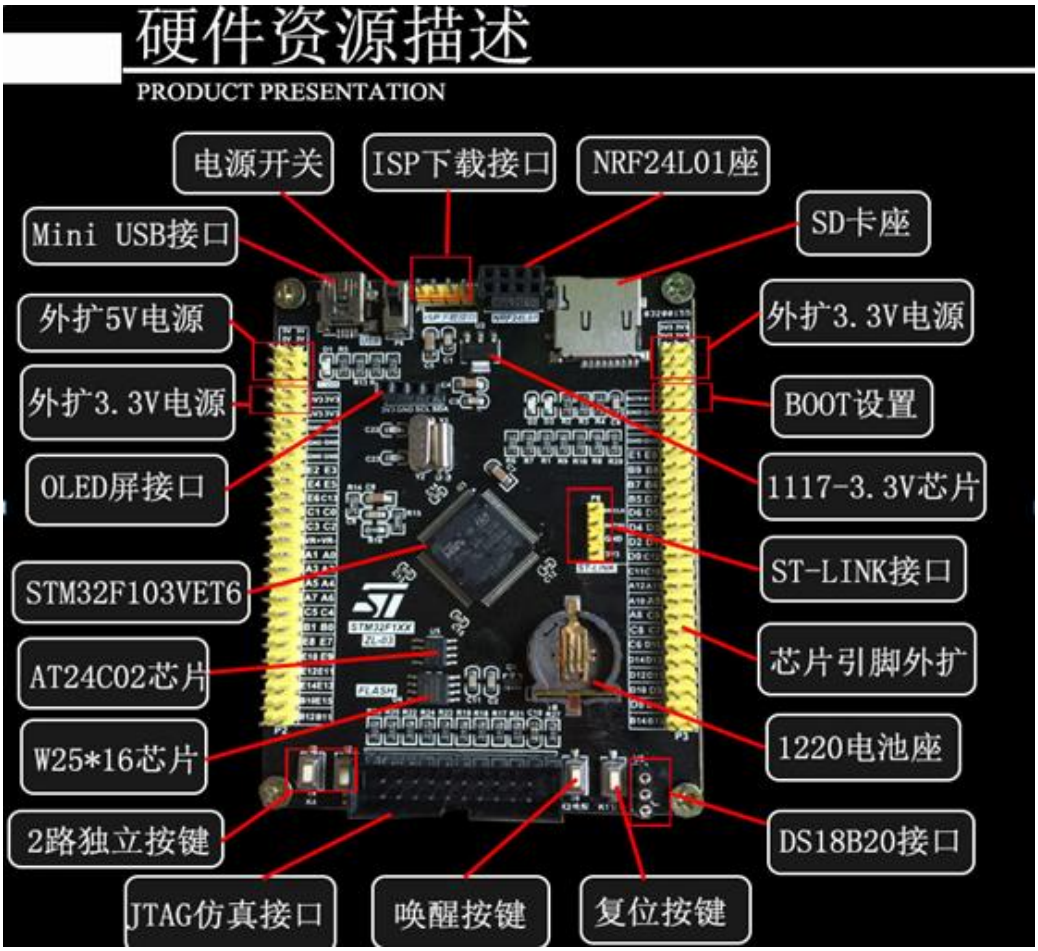
9 外擴 1 路 DS18B20 介面，方便做溫度測量實驗

10 外擴 1 路 OLED 液晶介面

11 PCB 尺寸：7.2cm*9.3cm

硬件资源描述

PRODUCT PRESENTATION



STM32F1 (ARM Cortex-M3) 32-bit Microcontroller Product List (as in November 2011)

Series	Pin count	Part Number	CPU Max. Clock (MHz)	Program Memory (bytes)	RAM (bytes)	FSMC	Timer			Communication Interface									Analog port		I/O port	Package
							16-bit General Purpose (IC/OC/PWM)	16-bit Advanced (IC/OC/PWM)	16-bit Basic	SPI	I^2C	USART* +UART	USB FS	CAN 2.0B	Ethernet	CEC	I^2S	SDIO	12-bit ADC (CH.)	12-bit DAC (CH.)		
Performance Line	36	STM32F103T4	72	16K	6K		2(8/8/8)	1(4/4/6)		1	1	2	1	1					2/(10)		26	VFQFPN36(6x6)
		STM32F103T6	72	32K	10K		2(8/8/8)	1(4/4/6)		1	1	2	1	1					2/(10)		26	
		STM32F103T8	72	64K	20K		3(12/12/12)	1(4/4/6)		1	1	2	1	1					2/(10)		26	
		STM32F103TB	72	128K	20K		3(12/12/12)	1(4/4/6)		1	1	2	1	1					2/(10)		26	
	48	STM32F103C4	72	16K	6K		2(8/8/8)	1(4/4/6)		1	1	2	1	1					2/(10)		37	LQFP48(7x7)/ VFQFPN48(7x7)
		STM32F103C6	72	32K	10K		2(8/8/8)	1(4/4/6)		1	1	2	1	1					2/(10)		37	
		STM32F103C8	72	64K	20K		3(12/12/12)	1(4/4/6)		2	2	3	1	1					2/(10)		37	
		STM32F103CB	72	128K	20K		3(12/12/12)	1(4/4/6)		2	2	3	1	1					2/(10)		37	
	64	STM32F103R4	72	16K	6K		2(8/8/8)	1(4/4/6)		1	1	2	1	1					2/(16)		51	LQFP64(10x10) TFBGA64(5x5)
		STM32F103R6	72	32K	10K		2(8/8/8)	1(4/4/6)		1	1	2	1	1					2/(16)		51	
		STM32F103R8	72	64K	20K		3(12/12/12)	1(4/4/6)		2	2	3	1	1					2/(16)		51	
		STM32F103RB	72	128K	20K		3(12/12/12)	1(4/4/6)		2	2	3	1	1					2/(16)		51	
		STM32F103RC	72	256K	48K		4(16/16/16)	2(8/8/12)	2	3	2	3+2	1	1			2	1	3/(16)	2	51	LQFP64 (10x10) WLCSP64(4.5 × 4.4)
		STM32F103RD	72	384K	64K		4(16/16/16)	2(8/8/12)	2	3	2	3+2	1	1			2	1	3/(16)	2	51	
		STM32F103RE	72	512K	64K		4(16/16/16)	2(8/8/12)	2	3	2	3+2	1	1			2	1	3/(16)	2	51	
		STM32F103RF	72	768K	96K		10(24/24/24)	2(8/8/12)	2	3	2	3+2	1	1			2	1	3/(16)	2	51	LQFP64 (10x10)
		STM32F103RG	72	1024K	96K		10(24/24/24)	2(8/8/12)	2	3	2	3+2	1	1			2	1	3/(16)	2	51	
	100	STM32F103V8	72	64K	20K		3(12/12/12)	1(4/4/6)		2	2	3	1	1					2/(16)		80	LQFP100(14x14) LFBGA100(10x10)
		STM32F103VB	72	128K	20K		3(12/12/12)	1(4/4/6)		2	2	3	1	1					2/(16)		80	
		STM32F103VC	72	256K	48K	•	4(16/16/16)	2(8/8/12)	2	3	2	3+2	1	1			2	1	3/(16)	2	80	
		STM32F103VD	72	384K	64K	•	4(16/16/16)	2(8/8/12)	2	3	2	3+2	1	1			2	1	3/(16)	2	80	
		STM32F103VE	72	512K	64K	•	4(16/16/16)	2(8/8/12)	2	3	2	3+2	1	1			2	1	3/(16)	2	80	
		STM32F103VF	72	768K	96K	•	10(24/24/24)	2(8/8/12)	2	3	2	3+2	1	1			2	1	3/(16)	2	80	LQFP100(14x14)
		STM32F103VG	72	1024K	96K	•	10(24/24/24)	2(8/8/12)	2	3	2	3+2	1	1			2	1	3/(16)	2	80	
	144	STM32F103ZC	72	256K	48K	•	4(16/16/16)	2(8/8/12)	2	3	2	3+2	1	1			2	1	3/(21)	2	112	LQFP144(20x20) BGA144(10x10)
		STM32F103ZD	72	384K	64K	•	4(16/16/16)	2(8/8/12)	2	3	2	3+2	1	1			2	1	3/(21)	2	112	
		STM32F103ZE	72	512K	64K	•	4(16/16/16)	2(8/8/12)	2	3	2	3+2	1	1			2	1	3/(21)	2	112	
		STM32F103ZF	72	768K	96K	•	10(24/24/24)	2(8/8/12)	2	3	2	3+2	1	1			2	1	3/(21)	2	112	
		STM32F103ZG	72	1024K	96K	•	10(24/24/24)	2(8/8/12)	2	3	2	3+2	1	1			2	1	3/(21)	2	112	