1. Description

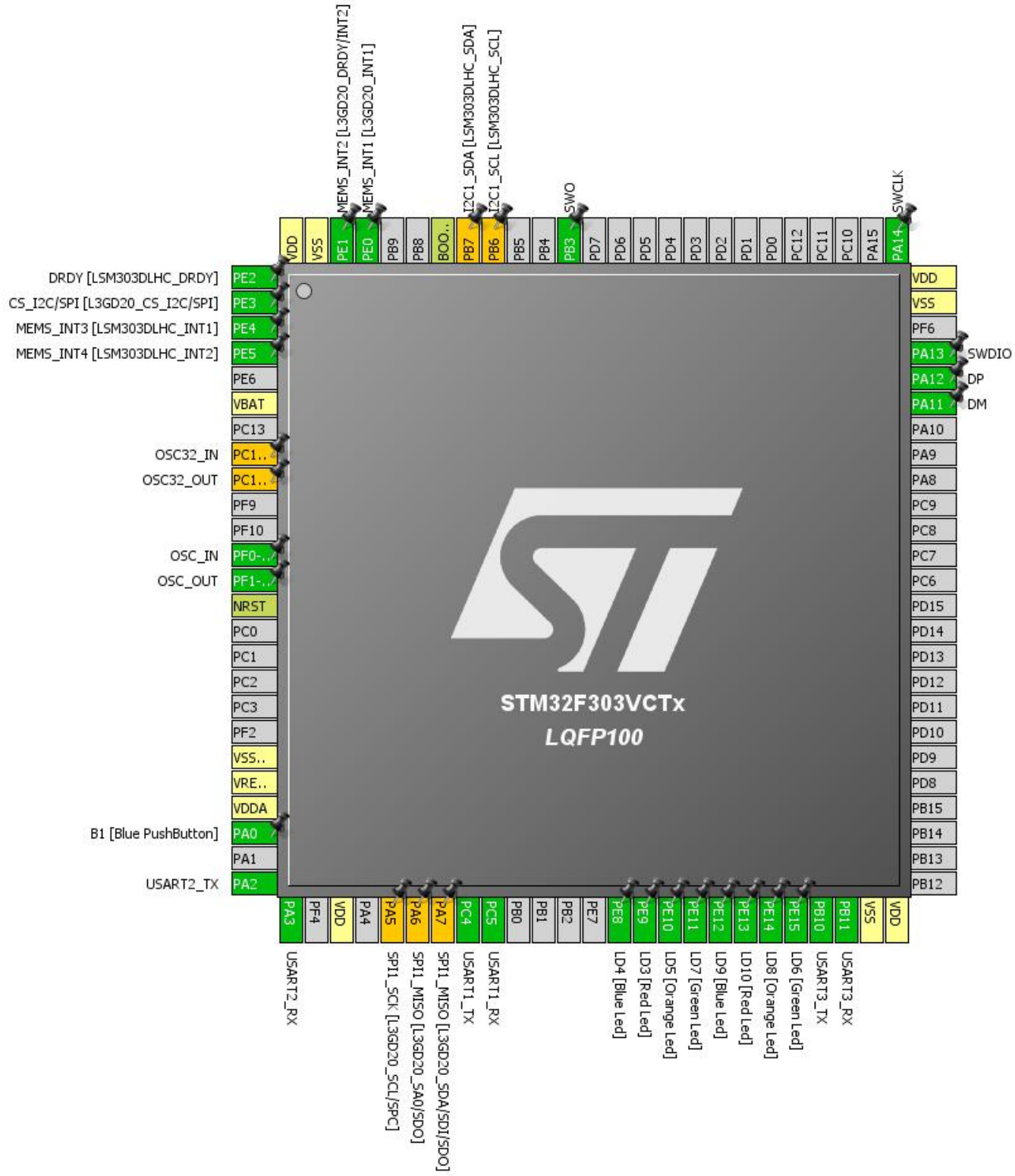
1.1. Project

Project Name	final
Generated with:	STM32CubeMX 4.6.0
Date	02/01/2015

1.2. MCU

MCU Serie	STM32F3
MCU Line	STM32F303
MCU name	STM32F303VCTx
MCU Package	LQFP100
MCU Pin number	100

2. Pinout Configuration



3. IPs and Middlewares Configuration

IP	Mode	Fonction	Pin
RCC	High Speed Clock (HSE): Crystal/Ceramic Resonator	RCC_OSC_IN	PF0-OSC_IN
		RCC_OSC_OUT	PF1-OSC_OUT
SYS	Debug: Trace Asynchronous Sw	SYS_JTCK-SWCLK	PA14
		SYS_JTMS-SWDIO	PA13
		SYS_JTDO-TRACESWO	PB3
USART1	Mode: Asynchronous	USART1_RX	PC5
		USART1_TX	PC4
USART2	Mode: Asynchronous	USART2_RX	PA3
		USART2_TX	PA2
USART3	Mode: Asynchronous	USART3_RX	PB11
		USART3_TX	PB10
USB	Device (FS)	USB_DM	PA11
		USB_DP	PA12

MiddleWare	Mode
FREERTOS	Enabled
USB_DEVICE	Class For FS IP: Communication Device Class (Virtual Port Com)

4. Pins Configuration

Pin	Pos	Function(s)	Label
PE2	1	GPIO_EXTI2	DRDY [LSM303DLHC_DRDY]
PE3 *	2	GPIO_Output	CS_I2C/SPI [L3GD20_CS_I2C/SPI]
PE4	3	GPIO_EXTI4	MEMS_INT3 [LSM303DLHC_INT1]
PE5	4	GPIO_EXTI5	MEMS_INT4 [LSM303DLHC_INT2]
PC14-OSC32_IN **	8	RCC_OSC32_IN	OSC32_IN
PC15-OSC32_OUT **	9	RCC_OSC32_OUT	OSC32_OUT
PF0-OSC_IN	12	RCC_OSC_IN	OSC_IN
PF1-OSC_OUT	13	RCC_OSC_OUT	OSC_OUT
PA0 *	23	GPIO_Input	B1 [Blue PushButton]
PA2	25	USART2_TX	
PA3	26	USART2_RX	
PA5 **	30	SPI1_SCK	SPI1_SCK [L3GD20_SCL/SPC]
PA6 **	31	SPI1_MISO	SPI1_MISO [L3GD20_SA0/SDO]
PA7 **	32	SPI1_MOSI	SPI1_MISO [L3GD20_SDA/SDI/SDO]
PC4	33	USART1_TX	
PC5	34	USART1_RX	
PE8 *	39	GPIO_Output	LD4 [Blue Led]
PE9 *	40	GPIO_Output	LD3 [Red Led]
PE10 *	41	GPIO_Output	LD5 [Orange Led]
PE11 *	42	GPIO_Output	LD7 [Green Led]
PE12 *	43	GPIO_Output	LD9 [Blue Led]
PE13 *	44	GPIO_Output	LD10 [Red Led]
PE14 *	45	GPIO_Output	LD8 [Orange Led]
PE15 *	46	GPIO_Output	LD6 [Green Led]
PB10	47	USART3_TX	
PB11	48	USART3_RX	
PA11	70	USB_DM	DM
PA12	71	USB_DP	DP
PA13	72	SYS_JTMS-SWDIO	SWDIO
PA14	76	SYS_JTCK-SWCLK	SWCLK
PB3	89	SYS_JTDO-TRACESWO	SWO
PB6 **	92	I2C1_SCL	I2C1_SCL [LSM303DLHC_SCL]
PB7 **	93	I2C1_SDA	I2C1_SDA [LSM303DLHC_SDA]
PE0	97	GPIO_EXTI0	MEMS_INT1 [L3GD20_INT1]
PE1	98	GPIO_EXTI1	MEMS_INT2 [L3GD20_DRDY/INT2]

* The pin is affected with an I/O function

** The pin is affected with a peripheral function but no peripheral mode is activated

5. Power Plugin report

5.1. Microcontroller Selection

Serie	STM32F3
Line	STM32F303
MCU	STM32F303VCTx
Datasheet	023353_Rev8

5.2. Parameter Selection

Temperature	25
Vdd	3.6

6. Software Project

6.1. Project Settings

Name	Value
Project Name	final
Project Folder	C:\svn\smarthome\freertos_check\final\final
Toolchain / IDE	MDK-ARM 4.73
Firmware Package Name and Version	STM32Cube FW_F3 V1.1.1

6.2. Code Generation Settings

Name	Value
STM32Cube Firmware Library Package	Copy only the necessary library files
Generate peripheral initialization as a pair of '.c/.h' files	Yes
Backup previously generated files when re-generating	Yes
Delete previously generated files when not re-generated	Yes
Set all free pins as analog (to optimize the power consumption)	No

6.3. Toolchains Settings

Name	Value
Compiler Optimizations	Balanced Size/Speed