

1. Description

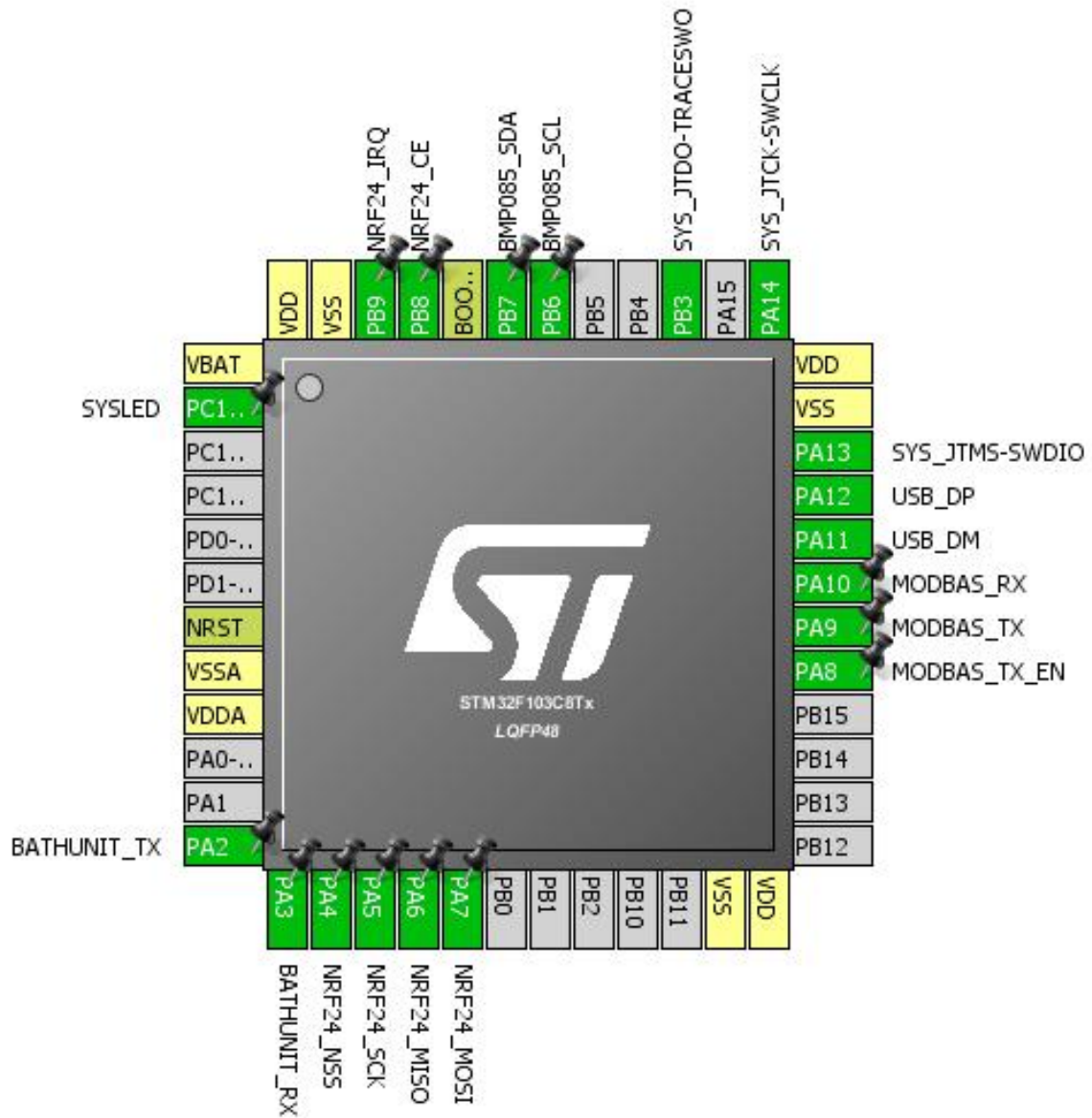
1.1. Project

Project Name	sensor-server-lqfp48
Generated with:	STM32CubeMX 4.8.0
Date	06/29/2015

1.2. MCU

MCU Serie	STM32F1
MCU Line	STM32F103
MCU name	STM32F103C8Tx
MCU Package	LQFP48
MCU Pin number	48

2. Pinout Configuration



3. IPs and Middlewares Configuration

IP	Mode	Fonction	Pin
I2C1	I2C: I2C	I2C1_SCL	PB6
		I2C1_SDA	PB7
SPI1	Mode: Full-Duplex Master	SPI1_MISO	PA6
		SPI1_MOSI	PA7
		SPI1_SCK	PA5
	Hardware NSS Signal	SPI1_NSS	PA4
SYS	Debug: Trace-Asynchronous_SW	SYS_JTMS-SWDIO	PA13
		SYS_JTCK-SWCLK	PA14
		SYS_JTDO-TRACESWO	PB3
TIM2	Clock Source : Internal Clock	N/A	N/A
USART1	Mode: Asynchronous	USART1_RX	PA10
		USART1_TX	PA9
USART2	Mode: Asynchronous	USART2_RX	PA3
		USART2_TX	PA2
USB	Device (FS)	USB_DM	PA11
		USB_DP	PA12

4. Pins Configuration

Pin	Pos	Function(s)	Label
PC13-TAMPER-RTC *	2	GPIO_Output	SYSLED
PA2	12	USART2_TX	BATHUNIT_TX
PA3	13	USART2_RX	BATHUNIT_RX
PA4	14	SPI1_NSS	NRF24_NSS
PA5	15	SPI1_SCK	NRF24_SCK
PA6	16	SPI1_MISO	NRF24_MISO
PA7	17	SPI1_MOSI	NRF24_MOSI
PA8 *	29	GPIO_Output	MODBAS_TX_EN
PA9	30	USART1_TX	MODBAS_TX
PA10	31	USART1_RX	MODBAS_RX
PA11	32	USB_DM	
PA12	33	USB_DP	
PA13	34	SYS_JTMS-SWDIO	
PA14	37	SYS_JTCK-SWCLK	
PB3	39	SYS_JTDO-TRACESWO	
PB6	42	I2C1_SCL	BMP085_SCL
PB7	43	I2C1_SDA	BMP085_SDA
PB8 *	45	GPIO_Output	NRF24_CE
PB9 *	46	GPIO_Input	NRF24_IRQ

* The pin is affected with an I/O function

5. Power Plugin report

5.1. Microcontroller Selection

Serie	STM32F1
Line	STM32F103
MCU	STM32F103C8Tx
Datasheet	13587_Rev16

5.2. Parameter Selection

Temperature	25
Vdd	3.3