1. Description

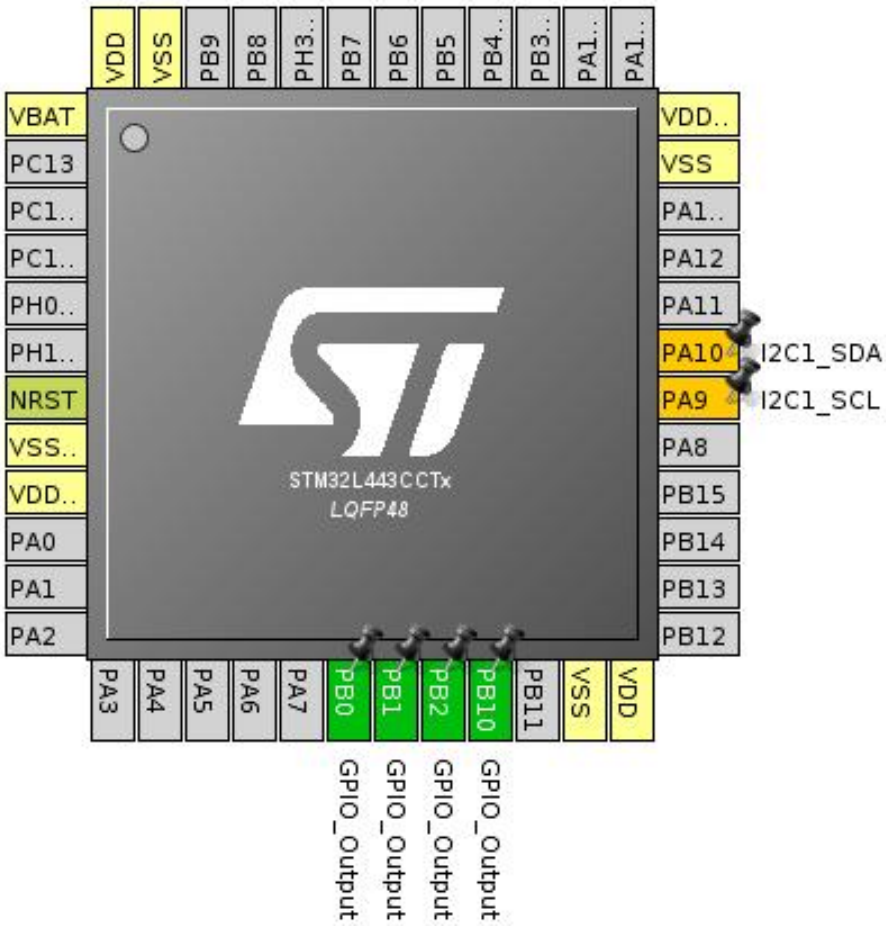
1.1. Project

Project Name	CustomSTM32
Board Name	CustomSTM32
Generated with:	STM32CubeMX 4.16.0
Date	10/18/2016

1.2. MCU

MCU Series	STM32L4
MCU Line	STM32L4x3
MCU name	STM32L443CCTx
MCU Package	LQFP48
MCU Pin number	48

2. Pinout Configuration



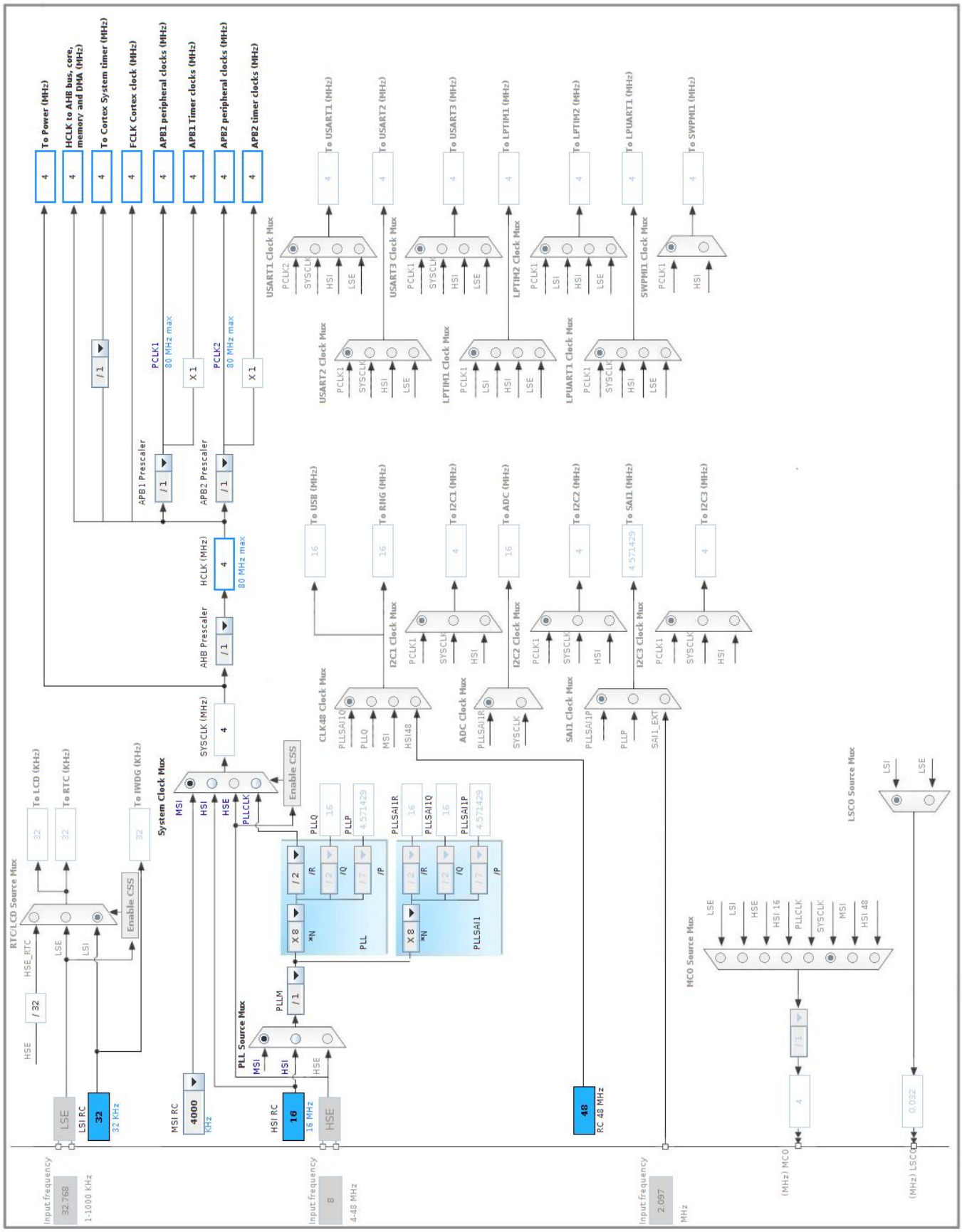
3. Pins Configuration

Pin Number LQFP48	Pin Name (function after reset)	Pin Type	Alternate Function(s)	Label
1	VBAT	Power		
7	NRST	Reset		
8	VSSA/VREF-	Power		
9	VDDA/VREF+	Power		
18	PB0 *	I/O	GPIO_Output	
19	PB1 *	I/O	GPIO_Output	
20	PB2 *	I/O	GPIO_Output	
21	PB10 *	I/O	GPIO_Output	
23	VSS	Power		
24	VDD	Power		
30	PA9 **	I/O	I2C1_SCL	
31	PA10 **	I/O	I2C1_SDA	
35	VSS	Power		
36	VDDUSB	Power		
47	VSS	Power		
48	VDD	Power		

* The pin is affected with an I/O function

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

4. Clock Tree Configuration



5. IPs and Middleware Configuration

5.1. SYS

Timebase Source: SysTick

*** User modified value**

6. System Configuration

6.1. GPIO configuration

IP	Pin	Signal	GPIO mode	GPIO pull/up pull down	Max Speed	User Label
Single Mapped Signals	PA9	I2C1_SCL	Alternate Function Open Drain	Pull-up	**Very High ***	
	PA10	I2C1_SDA	Alternate Function Open Drain	Pull-up	**Very High ***	
GPIO	PB0	GPIO_Output	Output Push Pull	No pull-up and no pull-down	Low	
	PB1	GPIO_Output	Output Push Pull	No pull-up and no pull-down	Low	
	PB2	GPIO_Output	Output Push Pull	No pull-up and no pull-down	Low	
	PB10	GPIO_Output	Output Push Pull	No pull-up and no pull-down	Low	

6.2. DMA configuration

nothing configured in DMA service

6.3. NVIC configuration

Interrupt Table	Enable	Preenmption Priority	SubPriority
Non maskable interrupt	true	0	0
Hard fault interrupt	true	0	0
Memory management fault	true	0	0
Prefetch fault, memory access fault	true	0	0
Undefined instruction or illegal state	true	0	0
System service call via SWI instruction	true	0	0
Debug monitor	true	0	0
Pendable request for system service	true	0	0
System tick timer	true	0	0
PVD/PVM1/PVM2/PVM3/PVM4 interrupts through EXTI lines 16/35/36/37/38	unused		
Flash global interrupt	unused		
RCC global interrupt	unused		
FPU global interrupt	unused		

*** User modified value**

7. Power Consumption Calculator report

7.1. Microcontroller Selection

Series	STM32L4
Line	STM32L4x3
MCU	STM32L443CCTx
Datasheet	028739_Rev1

7.2. Parameter Selection

Temperature	25
Vdd	3.0

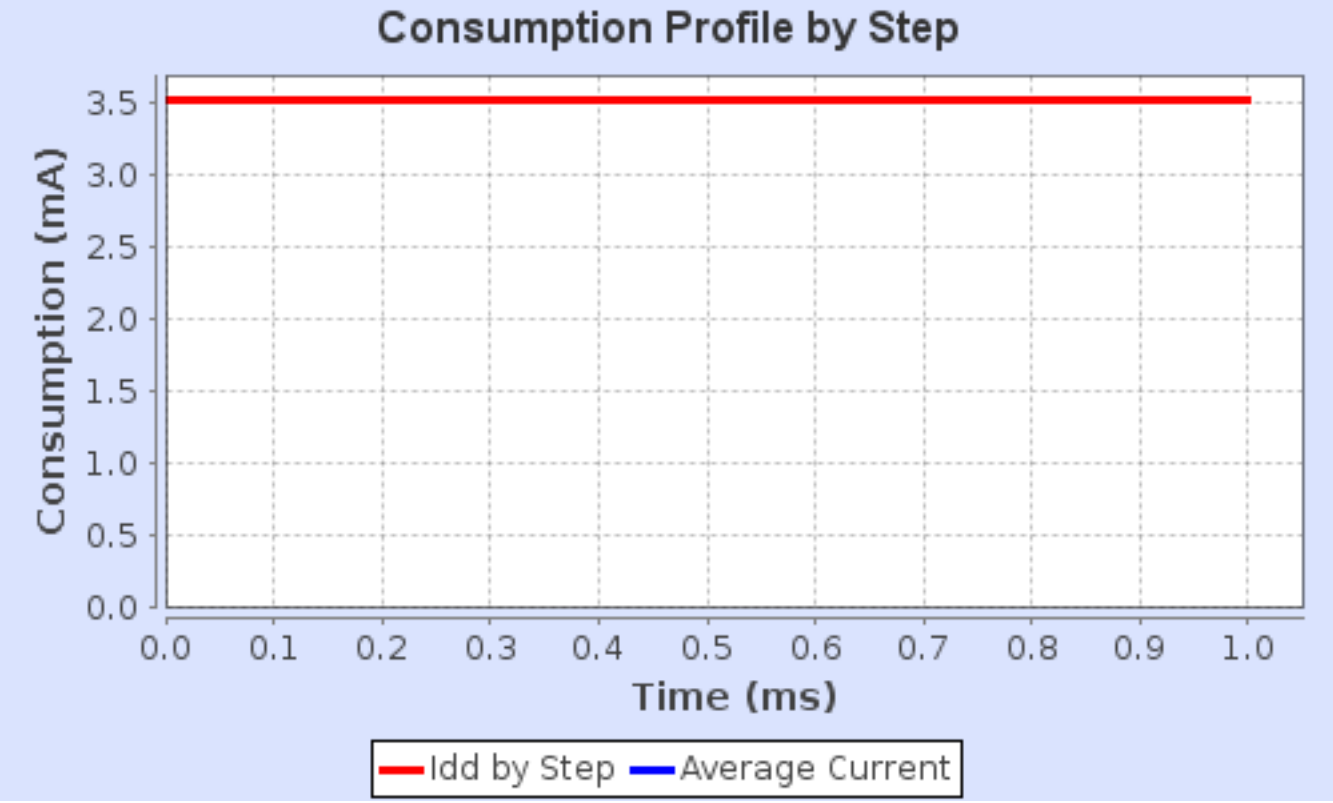
7.3. Sequence

Step	Step1
Mode	RUN
Vdd	3.0
Voltage Source	Battery
Range	Range1-High
Fetch Type	SRAM1
Clock Configuration	HSE BYP
Clock Source Frequency	32.0 MHz
CPU Frequency	32.0 MHz
Peripherals	
Additional Cons.	0 mA
Average Current	3.51 mA
Duration	1 ms
DMIPS	0.0
Ta Max	104.4
Category	In DS Table

7.4. RESULTS

Sequence Time	1 ms	Average Current	3.51 mA
Battery Life	0	Average DMIPS	40.0 DMIPS

7.5. Chart



8. Software Project

8.1. Project Settings

Name	Value
Project Name	CustomSTM32
Project Folder	/home/magulo/Desktop/Arm-Studies/sw-projects/CustomSTM32
Toolchain / IDE	EWARM
Firmware Package Name and Version	STM32Cube FW_L4 V1.5.2

8.2. Code Generation Settings

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