1. Description

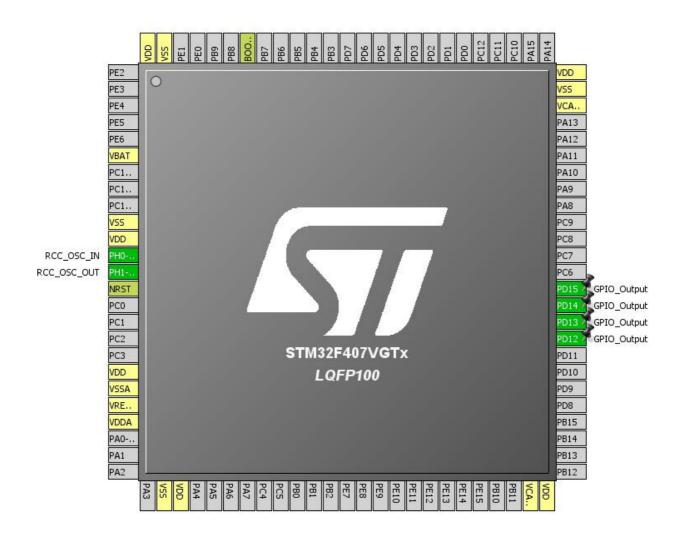
1.1. Project

Project Name	LedBlink
Board Name	LedBlink
Generated with:	STM32CubeMX 4.14.0
Date	12/22/2016

1.2. MCU

MCU Series	STM32F4
MCU Line	STM32F407/417
MCU name	STM32F407VGTx
MCU Package	LQFP100
MCU Pin number	100

2. Pinout Configuration

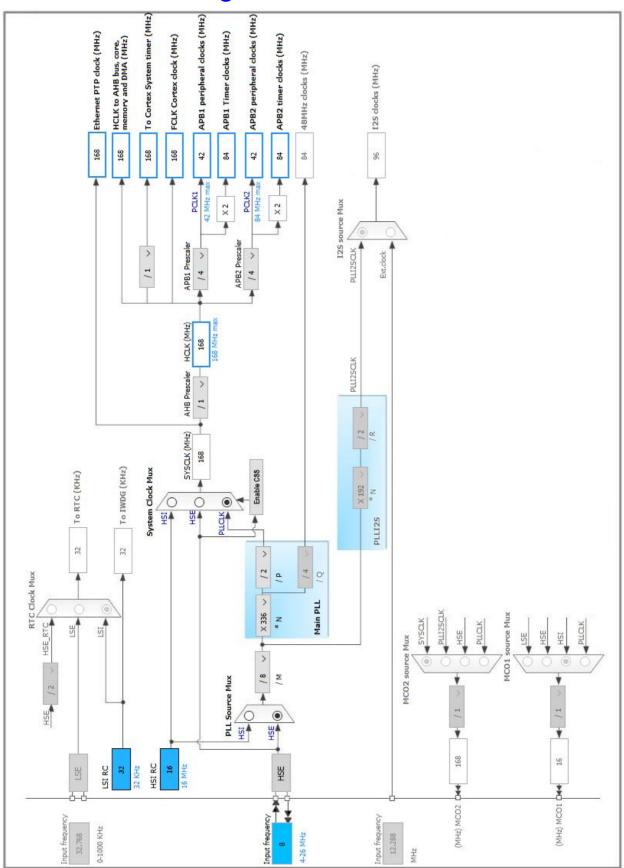


3. Pins Configuration

Pin Number LQFP100	Pin Name (function after reset)	Pin Type	Alternate Function(s)	Label
6	VBAT	Power		
10	VSS	Power		
11	VDD	Power		
12	PH0-OSC_IN	I/O	RCC_OSC_IN	
13	PH1-OSC_OUT	I/O	RCC_OSC_OUT	
14	NRST	Reset		
19	VDD	Power		
20	VSSA	Power		
21	VREF+	Power		
22	VDDA	Power		
27	VSS	Power		
28	VDD	Power		
49	VCAP_1	Power		
50	VDD	Power		
59	PD12 *	I/O	GPIO_Output	
60	PD13 *	I/O	GPIO_Output	
61	PD14 *	I/O	GPIO_Output	
62	PD15 *	I/O	GPIO_Output	
73	VCAP_2	Power		
74	VSS	Power		
75	VDD	Power		
94	воото	Boot		
99	VSS	Power		
100	VDD	Power		

^{*} The pin is affected with an I/O function

4. Clock Tree Configuration



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5. IPs and Middleware Configuration

5.1. RCC

High Speed Clock (HSE): Crystal/Ceramic Resonator

5.1.1. Parameter Settings:

System Parameters:

VDD voltage (V) 3.3
Instruction Cache Enabled
Prefetch Buffer Enabled
Data Cache Enabled

Flash Latency(WS) 5 WS (6 CPU cycle)

RCC Parameters:

HSI Calibration Value 16

Power Parameters:

Power Regulatror Voltage Scale Power Regulator Voltage Scale 1

5.2. 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
RCC	PH0- OSC_IN	RCC_OSC_IN	n/a	n/a	n/a	
	PH1- OSC_OUT	RCC_OSC_OUT	n/a	n/a	n/a	
GPIO	PD12	GPIO_Output	Output Push Pull	No pull-up and no pull-down	High *	
	PD13	GPIO_Output	Output Push Pull	No pull-up and no pull-down	High *	
	PD14	GPIO_Output	Output Push Pull	No pull-up and no pull-down	High *	
	PD15	GPIO_Output	Output Push Pull	No pull-up and no pull-down	High *	

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
Pre-fetch fault, memory access fault	true	0	0
Undefined instruction or illegal state	true	0	0
Debug monitor	true	0	0
System tick timer	true	0	0
PVD interrupt through EXTI line 16	unused		
Flash global interrupt	unused		
RCC global interrupt	unused		

^{*} User modified value

7. Power Plugin report

7.1. Microcontroller Selection

Series	STM32F4
Line	STM32F407/417
мси	STM32F407VGTx
Datasheet	022152_Rev6

7.2. Parameter Selection

Temperature	25
Vdd	3.3

8. Software Project

8.1. Project Settings

Name	Value
Project Name	LedBlink
Project Folder	C:\Users\Duy Luan\Desktop\STM\Blinky\LedBlink
Toolchain / IDE	MDK-ARM V5
Firmware Package Name and Version	STM32Cube FW_F4 V1.11.0

8.2. Code Generation Settings

Name	Value
STM32Cube Firmware Library Package	Add necessary library files as reference in the toolchain project configuration file
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	No
consumption)	