# 1. Description

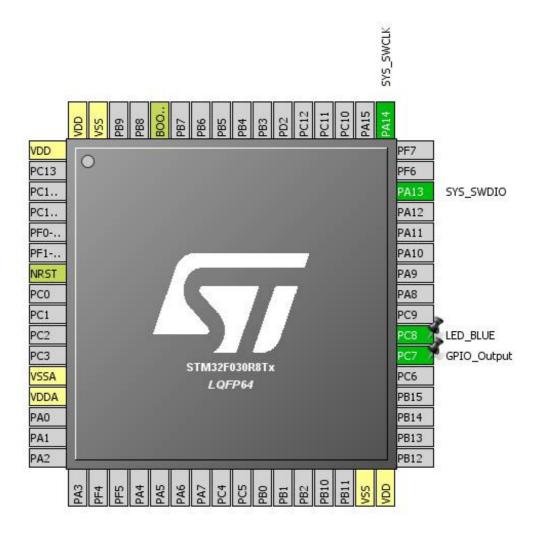
### 1.1. Project

Project Name	DISCO_TEST
Board Name	DISCO_TEST
Generated with:	STM32CubeMX 4.22.0
Date	08/22/2017

#### 1.2. MCU

MCU Series	STM32F0
MCU Line	STM32F0x0 Value Line
MCU name	STM32F030R8Tx
MCU Package	LQFP64
MCU Pin number	64

## 2. Pinout Configuration

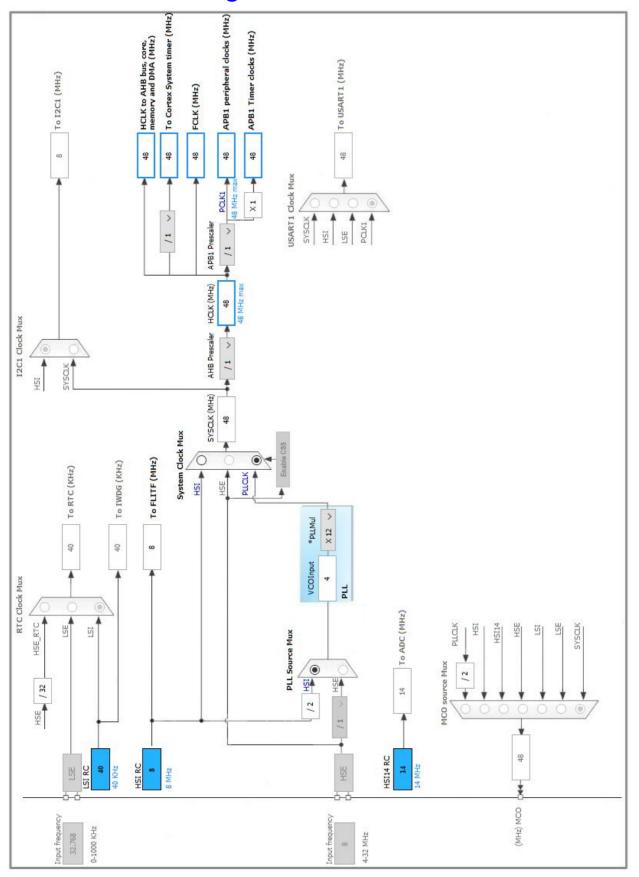


# 3. Pins Configuration

Pin Number LQFP64	Pin Name (function after reset)	Pin Type	Alternate Function(s)	Label
1	VDD	Power		
7	NRST	Reset		
12	VSSA	Power		
13	VDDA	Power		
31	VSS	Power		
32	VDD	Power		
38	PC7 *	I/O	GPIO_Output	
39	PC8 *	I/O	GPIO_Output	LED_BLUE
46	PA13	I/O	SYS_SWDIO	
49	PA14	I/O	SYS_SWCLK	
60	воото	Boot		
63	VSS	Power		
64	VDD	Power		

<sup>\*</sup> The pin is affected with an I/O function

## 4. Clock Tree Configuration



## 5. IPs and Middleware Configuration

#### 5.1. SYS

mode: Debug Serial Wire Timebase Source: SysTick

#### 5.2. TIM6

mode: Activated

#### 5.2.1. Parameter Settings:

#### **Counter Settings:**

Prescaler (PSC - 16 bits value)

Counter Mode

Counter Period (AutoReload Register - 16 bits value)

auto-reload preload

Disable

<sup>\*</sup> User modified value

# 6. System Configuration

### 6.1. GPIO configuration

IP	Pin	Signal	GPIO mode	GPIO pull/up pull down	Max Speed	User Label
SYS	PA13	SYS_SWDIO	n/a	n/a	n/a	
	PA14	SYS_SWCLK	n/a	n/a	n/a	
GPIO	PC7	GPIO_Output	Output Open Drain *	No pull-up and no pull-down	Low	
	PC8	GPIO_Output	Output Open Drain *	No pull-up and no pull-down	Low	LED_BLUE

### 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
System service call via SWI instruction	true	0	0
Pendable request for system service	true	0	0
System tick timer	true	0	0
TIM6 global interrupt	true	0	0
Flash global interrupt	unused		
RCC global interrupt	unused		

<sup>\*</sup> User modified value

# 7. Power Consumption Calculator report

#### 7.1. Microcontroller Selection

Series	STM32F0
Line	STM32F0x0 Value Line
мси	STM32F030R8Tx
Datasheet	024849_Rev2

#### 7.2. Parameter Selection

Temperature	25
Vdd	3.6

# 8. Software Project

### 8.1. Project Settings

Name	Value	
Project Name	DISCO_TEST	
Project Folder	C:\Users\Riyamoll\eclipse-workspace\DISCO_TEST	
Toolchain / IDE	SW4STM32	
Firmware Package Name and Version	STM32Cube FW_F0 V1.8.0	

#### 8.2. 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	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)	