1. Description

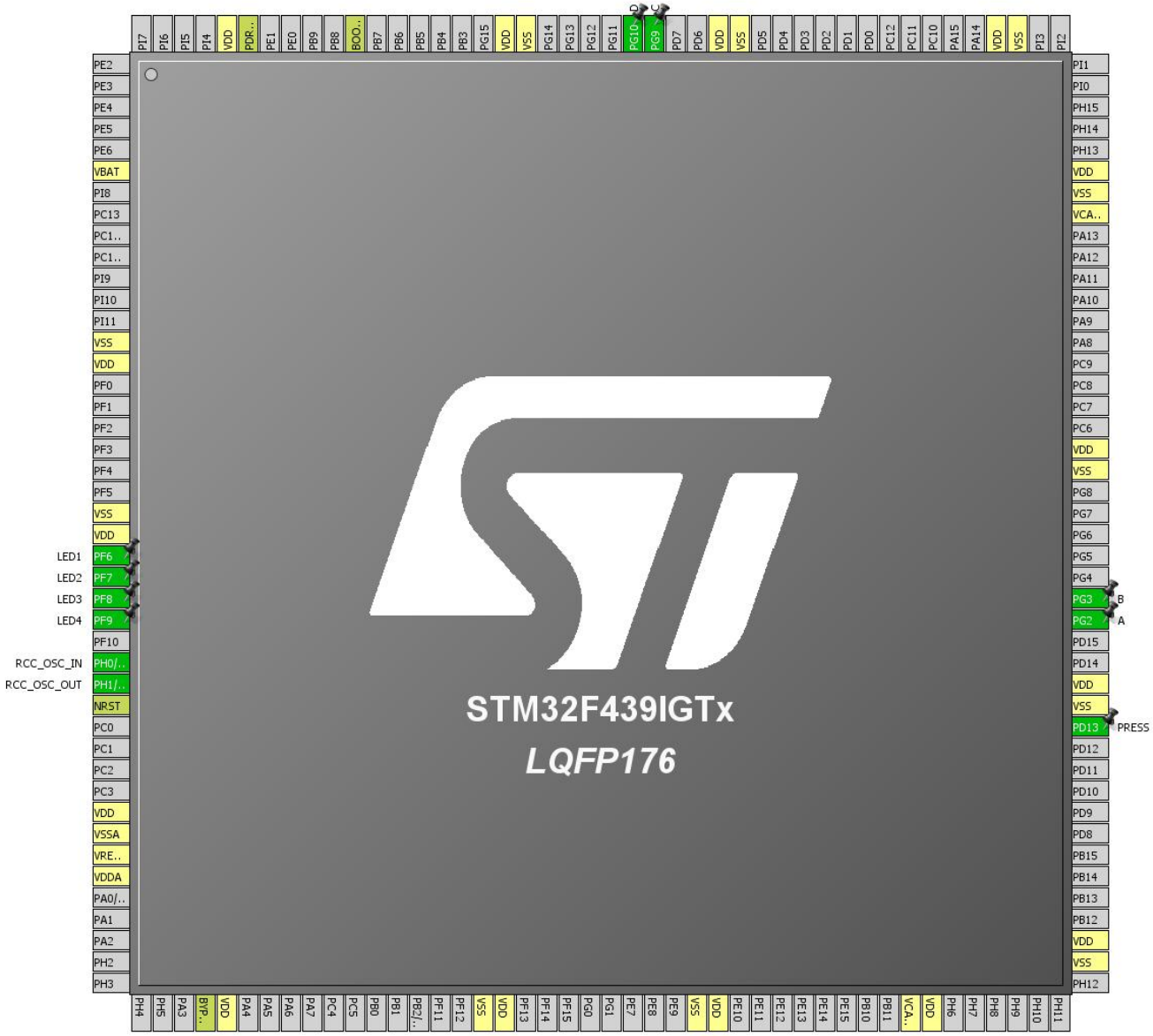
1.1. Project

Project Name	STM32F429I
Board Name	STM32F429I
Generated with:	STM32CubeMX 4.10.0
Date	09/07/2015

1.2. MCU

MCU Series	STM32F4
MCU Line	STM32F429/439
MCU name	STM32F439IGTx
MCU Package	LQFP176
MCU Pin number	176

2. Pinout Configuration



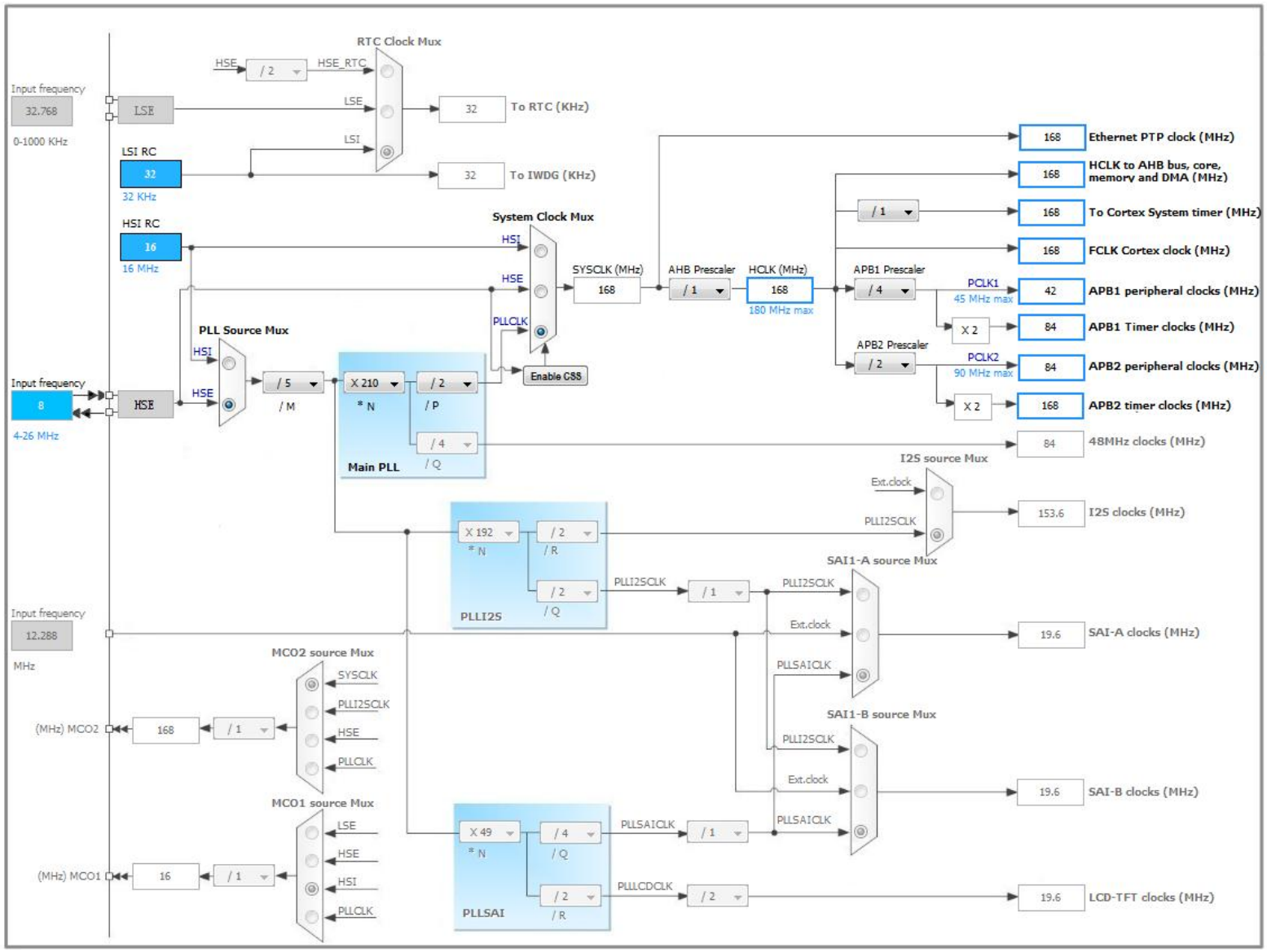
3. Pins Configuration

Pin Number LQFP176	Pin Name (function after reset)	Pin Type	Alternate Function(s)	Label
6	VBAT	Power		
14	VSS	Power		
15	VDD	Power		
22	VSS	Power		
23	VDD	Power		
24	PF6 *	I/O	GPIO_Output	LED1
25	PF7 *	I/O	GPIO_Output	LED2
26	PF8 *	I/O	GPIO_Output	LED3
27	PF9 *	I/O	GPIO_Output	LED4
29	PH0/OSC_IN	I/O	RCC_OSC_IN	
30	PH1/OSC_OUT	I/O	RCC_OSC_OUT	
31	NRST	Reset		
36	VDD	Power		
37	VSSA	Power		
38	VREF+	Power		
39	VDDA	Power		
48	BYPASS_REG	Reset		
49	VDD	Power		
61	VSS	Power		
62	VDD	Power		
71	VSS	Power		
72	VDD	Power		
81	VCAP_1	Power		
82	VDD	Power		
90	VSS	Power		
91	VDD	Power		
101	PD13 *	I/O	GPIO_Input	PRESS
102	VSS	Power		
103	VDD	Power		
106	PG2 *	I/O	GPIO_Input	A
107	PG3 *	I/O	GPIO_Input	B
113	VSS	Power		
114	VDD	Power		
125	VCAP_2	Power		
126	VSS	Power		
127	VDD	Power		

Pin Number LQFP176	Pin Name (function after reset)	Pin Type	Alternate Function(s)	Label
135	VSS	Power		
136	VDD	Power		
148	VSS	Power		
149	VDD	Power		
152	PG9 *	I/O	GPIO_Input	C
153	PG10 *	I/O	GPIO_Input	D
158	VSS	Power		
159	VDD	Power		
166	BOOT0	Boot		
171	PDR_ON	Reset		
172	VDD	Power		

* The pin is affected with an I/O function

4. Clock Tree Configuration



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
TIM Prescaler Selection	Disabled

Power Parameters:

Power Regulatror Voltage Scale	Power Regulator Voltage Scale 1
Power Over Drive	Disabled

*** 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	PF6	GPIO_Output	Output Push Pull	No pull-up and no pull-down	Low	LED1
	PF7	GPIO_Output	Output Push Pull	No pull-up and no pull-down	Low	LED2
	PF8	GPIO_Output	Output Push Pull	No pull-up and no pull-down	Low	LED3
	PF9	GPIO_Output	Output Push Pull	No pull-up and no pull-down	Low	LED4
	PD13	GPIO_Input	Input mode	**Pull-up ***	n/a	PRESS
	PG2	GPIO_Input	Input mode	**Pull-up ***	n/a	A
	PG3	GPIO_Input	Input mode	**Pull-up ***	n/a	B
	PG9	GPIO_Input	Input mode	**Pull-up ***	n/a	C
	PG10	GPIO_Input	Input mode	**Pull-up ***	n/a	D

6.2. DMA configuration

nothing configured in DMA service

6.3. NVIC configuration

Interrupt Table	Enable	Preenmption Priority	SubPriority
System tick timer	true	0	0
Non maskable interrupt	unused		
Memory management fault	unused		
Pre-fetch fault, memory access fault	unused		
Undefined instruction or illegal state	unused		
Debug monitor	unused		
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	STM32F429/439
MCU	STM32F439IGTx
Datasheet	024244_Rev6

7.2. Parameter Selection

Temperature	25
Vdd	null

8. Software Project

8.1. Project Settings

Name	Value
Project Name	STM32F429I
Project Folder	C:\Users\Administrator\Desktop\stm32cube\STM32F429I\2.KEY
Toolchain / IDE	MDK-ARM V5
Firmware Package Name and Version	STM32Cube FW_F4 V1.8.0

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

8.3. Toolchains Settings

Name	Value
Compiler Optimizations	Balanced Size/Speed