

1. Description

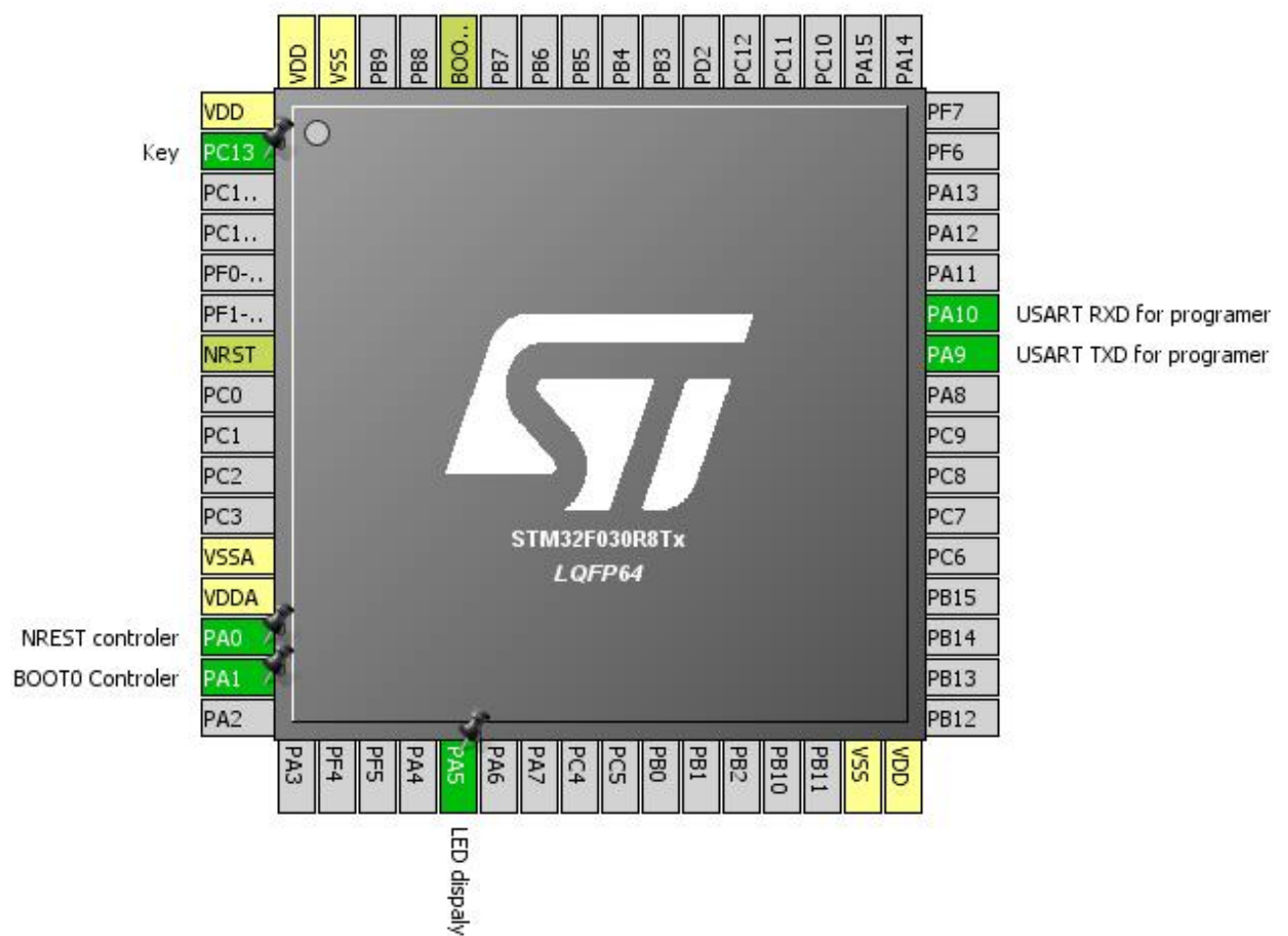
1.1. Project

Project Name	demo
Board Name	demo
Generated with:	STM32CubeMX 4.12.0
Date	12/10/2015

1.2. MCU

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

2. Pinout Configuration

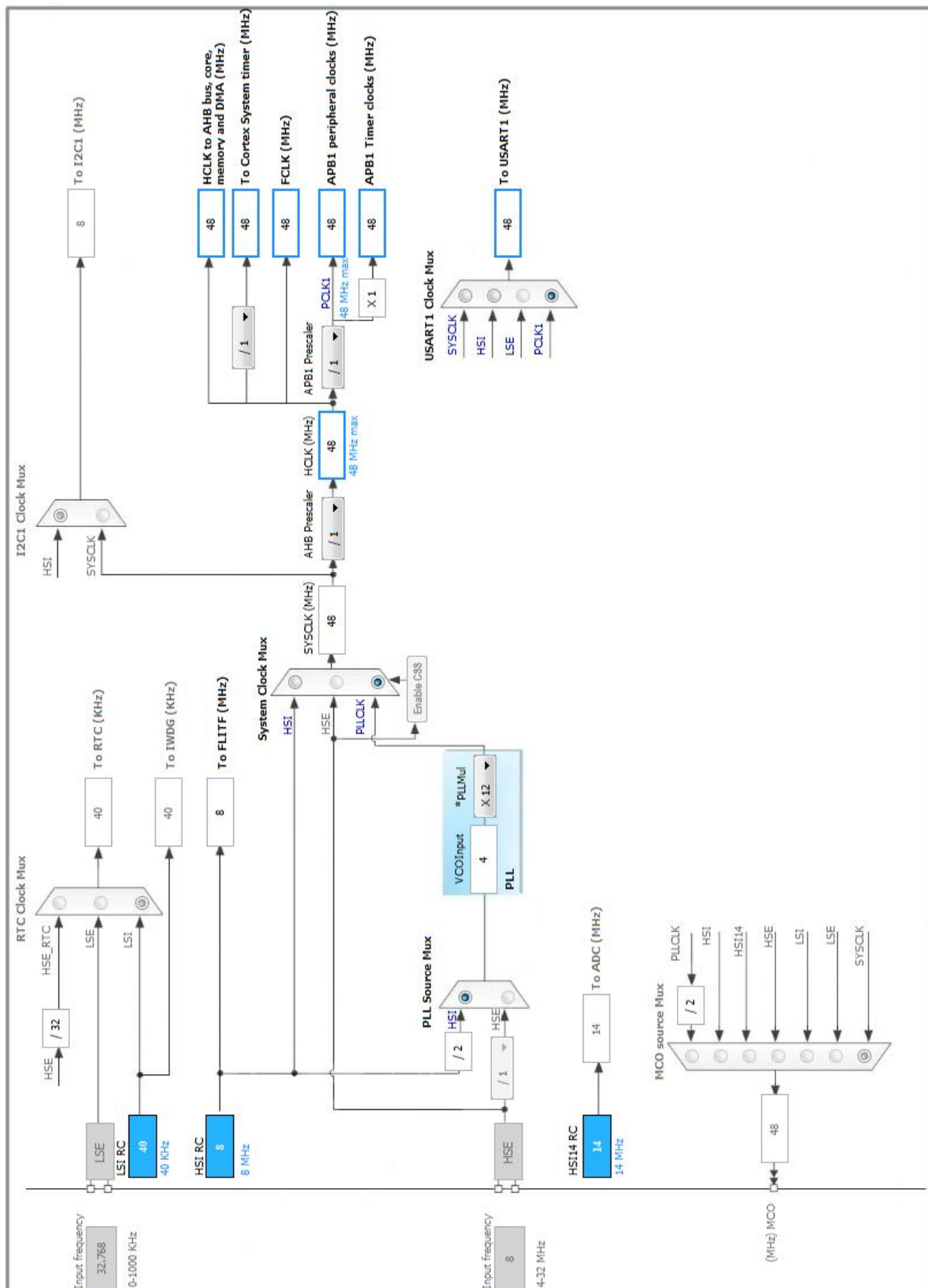


3. Pins Configuration

Pin Number LQFP64	Pin Name (function after reset)	Pin Type	Alternate Function(s)	Label
1	VDD	Power		
2	PC13 *	I/O	GPIO_Input	Key
7	NRST	Reset		
12	VSSA	Power		
13	VDDA	Power		
14	PA0 *	I/O	GPIO_Output	NREST controler
15	PA1 *	I/O	GPIO_Output	BOOT0 Controler
21	PA5 *	I/O	GPIO_Output	LED dispaly
31	VSS	Power		
32	VDD	Power		
42	PA9	I/O	USART1_TX	USART TXD for programer
43	PA10	I/O	USART1_RX	USART RXD for programer
60	BOOT0	Boot		
63	VSS	Power		
64	VDD	Power		

* The pin is affected with an I/O function

4. Clock Tree Configuration



5. IPs and Middleware Configuration

5.1. USART1

Mode: Asynchronous

5.1.1. Parameter Settings:

Basic Parameters:

Baud Rate	9600 *
Word Length	9 Bits (including Parity) *
Parity	Even *
Stop Bits	1

Advanced Parameters:

Data Direction	Receive and Transmit
Over Sampling	16 Samples
Single Sample	Disable

Advanced Features:

Auto Baudrate	Disable
TX Pin Active Level Inversion	Disable
RX Pin Active Level Inversion	Disable
Data Inversion	Disable
TX and RX Pins Swapping	Disable
Overrun	Enable
DMA on RX Error	Enable
MSB First	Disable

* User modified value

6. System Configuration

6.1. GPIO configuration

IP	Pin	Signal	GPIO mode	GPIO pull/up pull down	Max Speed	User Label
USART1	PA9	USART1_TX	Alternate Function Push Pull	n/a	High *	USART TXD for programmer
	PA10	USART1_RX	Alternate Function Push Pull	n/a	High *	USART RXD for programmer
GPIO	PC13	GPIO_Input	Input mode	n/a	n/a	Key
	PA0	GPIO_Output	Output Push Pull	n/a	Low	NREST controler
	PA1	GPIO_Output	Output Push Pull	n/a	Low	BOOT0 Controler
	PA5	GPIO_Output	Output Push Pull	n/a	Low	LED dispaly

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
USART1 global interrupt	true	0	0
Non maskable interrupt	unused		
Hard fault interrupt	unused		
Flash global interrupt	unused		
RCC global interrupt	unused		

* User modified value

7. Power Plugin report

7.1. Microcontroller Selection

Series	STM32F0
Line	STM32F0x0 Value Line
MCU	STM32F030R8Tx
Datasheet	024849 Rev2

7.2. Parameter Selection

Temperature	25
Vdd	3.6

8. Software Project

8.1. Project Settings

Name	Value
Project Name	demo
Project Folder	C:\Users\tomas Li old\transmite\Documents\my soft\Programer offline by
Toolchain / IDE	EWARM
Firmware Package Name and Version	STM32Cube FW_F0 V1.4.0

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