

1. Description

1.1. Project

Project Name	Assign2_Bissmann_Samuel
Board Name	custom
Generated with:	STM32CubeMX 6.9.1
Date	03/16/2024

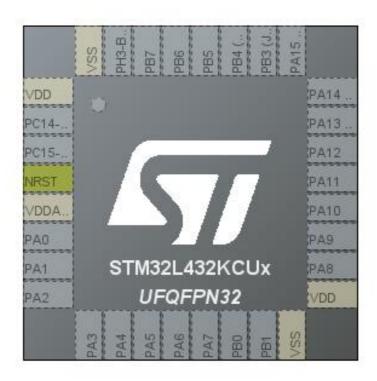
1.2. MCU

MCU Series	STM32L4
MCU Line	STM32L4x2
MCU name	STM32L432KCUx
MCU Package	UFQFPN32
MCU Pin number	32

1.3. Core(s) information

Core(s)	Arm Cortex-M4

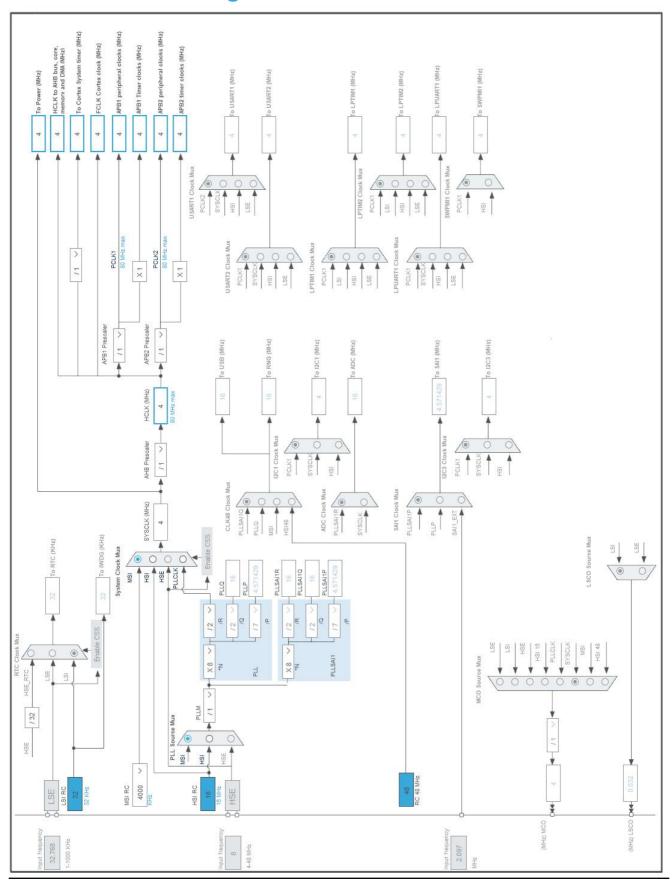
2. Pinout Configuration



3. Pins Configuration

Pin Number UFQFPN32	Pin Name (function after reset)	Pin Type	Alternate Function(s)	Label
1	VDD	Power		
4	NRST	Reset		
5	VDDA/VREF+	Power		
16	VSS	Power		
17	VDD	Power		
32	VSS	Power		

4. Clock Tree Configuration



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5. Software Project

5.1. Project Settings

Name	Value	
Project Name	Assign2_Bissmann_Samuel	
Project Folder	C:\Users\samue\STM32CubelDE\workspace_1.13.1\Assign2_Bissmann_Samuel	
Toolchain / IDE	STM32CubeIDE	
Firmware Package Name and Version	STM32Cube FW_L4 V1.18.0	
Application Structure	Advanced	
Generate Under Root	Yes	
Do not generate the main()	No	
Minimum Heap Size	0x200	
Minimum Stack Size	0x400	

5.2. Code Generation Settings

Name	Value
STM32Cube MCU packages and embedded software	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
Keep User Code when re-generating	Yes
Delete previously generated files when not re-generated	Yes
Set all free pins as analog (to optimize the power	No
consumption)	
Enable Full Assert	No

5.3. Advanced Settings - Generated Function Calls

Rank	Function Name	Peripheral Instance Name
1	SystemClock_Config	RCC

1. Power Consumption Calculator report

1.1. Microcontroller Selection

Series	STM32L4
Line	STM32L4x2
MCU	STM32L432KCUx
Datasheet	DS11451_Rev2

1.2. Parameter Selection

Temperature	25
Vdd	3.0

1.3. Battery Selection

Battery	Li-SOCL2(A3400)
Capacity	3400.0 mAh
Self Discharge	0.08 %/month
Nominal Voltage	3.6 V
Max Cont Current	100.0 mA
Max Pulse Current	200.0 mA
Cells in series	1
Cells in parallel	1

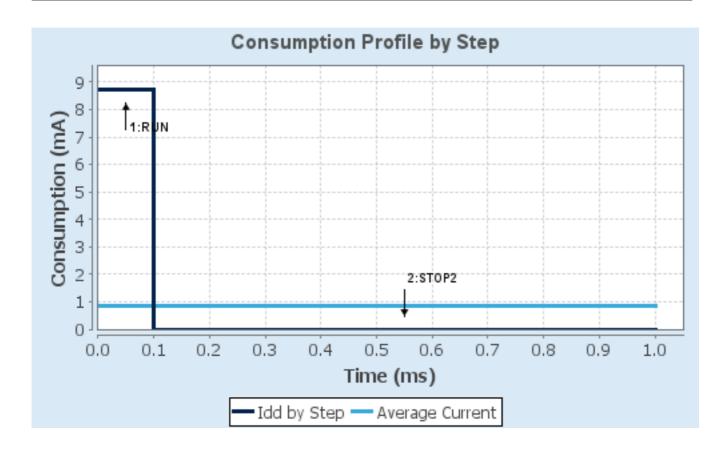
1.4. Sequence

Step	Step1	Step2
Mode	RUN	STOP2
Vdd	3.0	3.0
Voltage Source	Battery	Battery
Range	Range1-High	NoRange
Fetch Type	SRAM2	n/a
CPU Frequency	80 MHz	0 Hz
Clock Configuration	HSE BYP PLL	ALL CLOCKS OFF
Clock Source Frequency	4 MHz	0 Hz
Peripherals		
Additional Cons.	0 mA	0 mA
Average Current	8.71 mA	1.06 μΑ
Duration	0.1 ms	0.9 ms
DMIPS	100.0	0.0
Та Мах	103.98	105
Category	In DS Table	In DS Table

1.5. Results

Sequence Time	1 ms	Average Current	871.95 μA
Battery Life	5 months, 9 days,	Average DMIPS	100.0 DMIPS
	16 hours		

1.6. Chart



2. Peripherals and Middlewares Configuration

2.1. RCC

2.1.1. Parameter Settings:

System Parameters:

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

Flash Latency(WS) 0 WS (1 CPU cycle)

RCC Parameters:

HSI Calibration Value 16
MSI Calibration Value 0

MSI Auto Calibration Disabled
HSE Startup Timout Value (ms) 100
LSE Startup Timout Value (ms) 5000

Power Parameters:

Power Regulator Voltage Scale Power Regulator Voltage Scale 1

* User modified value

3. System Configuration

3.1. GPIO configuration

IP	Pin	Signal	GPIO mode	GPIO pull/up pull	Max	User Label
				down	Speed	

3.2. DMA configuration

nothing configured in DMA service

3.3. NVIC configuration

3.3.1. NVIC

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	15	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			

3.3.2. NVIC Code generation

Enabled interrupt Table	Select for init	Generate IRQ handler	Call HAL handler
Non maskable interrupt	false	true	false
Hard fault interrupt	false	true	false
Memory management fault	false	true	false
Prefetch fault, memory access fault	false	true	false
Undefined instruction or illegal state	false	true	false
System service call via SWI instruction	false	true	false
Debug monitor	false	true	false
Pendable request for system service	false	true	false
System tick timer	false	true	true

* User modified value

4. System Views

- 4.1. Category view
- 4.1.1. Current



5. Docs & Resources

Type Link

BSDL files https://www.st.com/resource/en/bsdl_model/stm32l4_bsdl.zip

IBIS models https://www.st.com/resource/en/ibis_model/stm32l4_ibis.zip

System View https://www.st.com/resource/en/svd/stm32l4_svd.zip

Description

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stm8_embedded_software_solutions.pdf

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& Software stm32cubeide-stmicroelectronics.pdf

Application Notes https://www.st.com/resource/en/application_note/an5394-getting-started-

for related Tools with-projects-based-on-the-stm32l5-series-in-stm32cubeide-

& Software stmicroelectronics.pdf

Application Notes https://www.st.com/resource/en/application_note/an5418-how-to-build-a-for related Tools simple-usbpd-sink-application-with-stm32cubemx-stmicroelectronics.pdf

& Software

Application Notes https://www.st.com/resource/en/application_note/an5426-migrating-

for related Tools graphics-middleware-projects-from-stm32cubemx-540-to-stm32cubemx-

& Software 550-stmicroelectronics.pdf

Application Notes https://www.st.com/resource/en/application_note/an5564-getting-started-

for related Tools with-projects-based-on-dualcore-stm32wl-microcontrollers-in-

& Software stm32cubeide-stmicroelectronics.pdf

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& Software stmicroelectronics.pdf

Application Notes https://www.st.com/resource/en/application_note/an5676-how-to-

for related Tools calibrate-internal-rc-oscillators-on-stm32u5-series-stmicroelectronics.pdf

& Software

Application Notes https://www.st.com/resource/en/application_note/an5698-adapting-the-for related Tools xcubestl-functional-safety-package-for-stm32-iec-61508-compliant-to-

& Software other-safety-standards-stmicroelectronics.pdf

Application Notes https://www.st.com/resource/en/application_note/an5731-stm32cubemx-

for related Tools and-stm32cubeide-threadsafe-solution-stmicroelectronics.pdf

& Software

Application Notes https://www.st.com/resource/en/application_note/an5857-using-

for related Tools xcuberccalib-software-to-calibrate-stm32c0-series-internal-rc-oscillator-

& Software stmicroelectronics.pdf

Application Notes https://www.st.com/resource/en/application_note/an4502-stm32-

for related Tools smbuspmbus-expansion-package-for-stm32cube-stmicroelectronics.pdf

& Software

Application Notes https://www.st.com/resource/en/application_note/an5126-how-to-

for related Tools calibrate-internal-oscillators-on-stm32g0-mcus-stmicroelectronics.pdf

& Software

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for related Tools optimize-power-consumption-on-stm32-mcus-stmicroelectronics.pdf

& Software

Application Notes https://www.st.com/resource/en/application_note/an5952-how-to-use-

for related Tools cmake-in-stm32cubeide-stmicroelectronics.pdf

& Software

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for related Tools eeprom-emulation-on-stm32-mcus-stmicroelectronics.pdf

& Software

Errata Sheets https://www.st.com/resource/en/errata_sheet/es0319-stm32l432kbkc-and-

stm32l442kc-device-errata-stmicroelectronics.pdf

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Programming https://www.st.com/resource/en/programming_manual/pm0214-stm32-Manuals cortexm4-mcus-and-mpus-programming-manual-stmicroelectronics.pdf

Reference https://www.st.com/resource/en/reference_manual/rm0394-

Manuals stm32l41xxx42xxx43xxx44xxx45xxx46xxx-advanced-armbased-32bit-

mcus-stmicroelectronics.pdf

Technical Notes https://www.st.com/resource/en/technical_note/tn1163-description-of-

& Articles wlcsp-for-microcontrollers-and-recommendations-for-its-use-

stmicroelectronics.pdf

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& Articles shipping-media-for-stm32-microcontrollers-in-bga-packages-

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& Articles shipping-media-for-stm8-and-stm32-microcontrollers-in-fpn-packages-

stmicroelectronics.pdf

Technical Notes https://www.st.com/resource/en/technical_note/tn1206-tape-and-reel-

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Technical Notes https://www.st.com/resource/en/technical_note/tn1207-tape-and-reel-

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stmicroelectronics.pdf

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packages-stmicroelectronics.pdf

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stm32l4-series-safety-manual-stmicroelectronics.pdf

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stm32l4-series-ulcsaiec-607301603351-selftest-library-user-guide-

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