

1. Description

1.1. Project

Project Name	DevEBox
Board Name	custom
Generated with:	STM32CubeMX 6.13.0
Date	01/22/2025

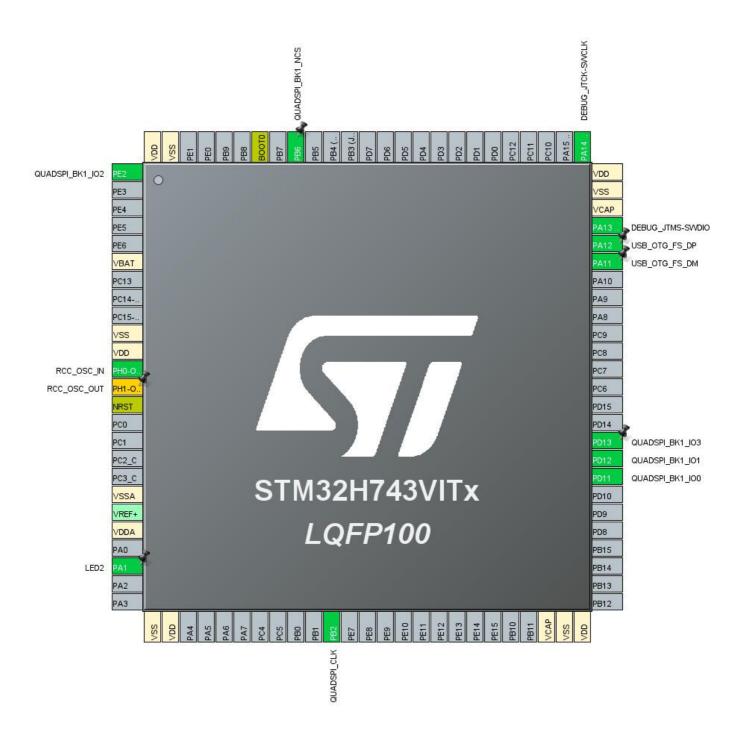
1.2. MCU

MCU Series	STM32H7
MCU Line	STM32H743/753
MCU name	STM32H743VITx
MCU Package	LQFP100
MCU Pin number	100

1.3. Core(s) information

Core(s)	ARM Cortex-M7

2. Pinout Configuration



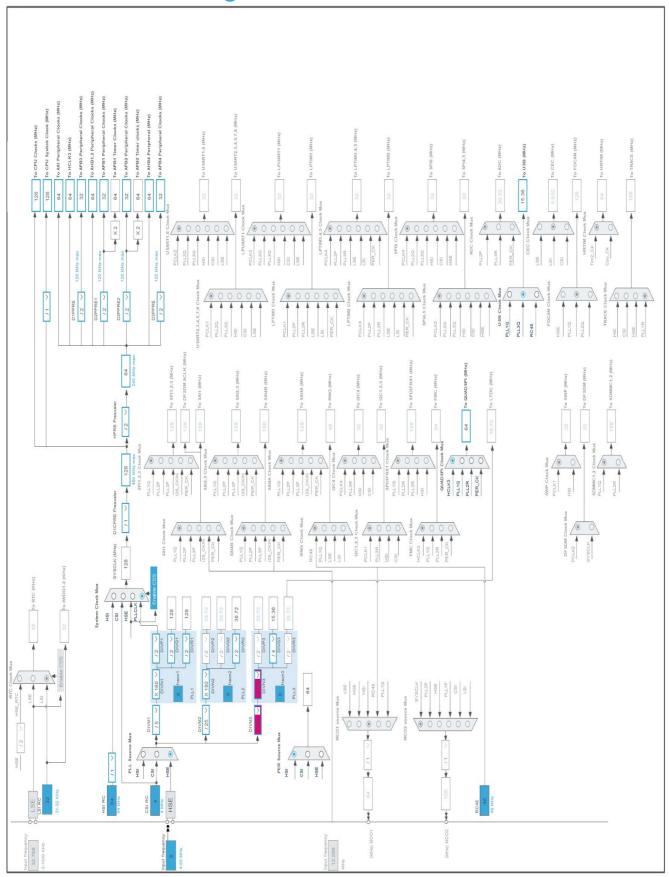
3. Pins Configuration

Pin Number LQFP100	Pin Name (function after reset)	Pin Type	Alternate Function(s)	Label
1	PE2	I/O	QUADSPI_BK1_IO2	
6	VBAT	Power		
10	VSS	Power		
11	VDD	Power		
12	PH0-OSC_IN (PH0)	I/O	RCC_OSC_IN	
13	PH1-OSC_OUT (PH1) *	I/O	RCC_OSC_OUT	
14	NRST	Reset		
19	VSSA	Power		
21	VDDA	Power		
23	PA1 **	I/O	GPIO_Output	LED2
26	VSS	Power		
27	VDD	Power		
36	PB2	I/O	QUADSPI_CLK	
48	VCAP	Power		
49	VSS	Power		
50	VDD	Power		
58	PD11	I/O	QUADSPI_BK1_IO0	
59	PD12	I/O	QUADSPI_BK1_IO1	
60	PD13	I/O	QUADSPI_BK1_IO3	
70	PA11	I/O	USB_OTG_FS_DM	
71	PA12	I/O	USB_OTG_FS_DP	
72	PA13 (JTMS/SWDIO)	I/O	DEBUG_JTMS-SWDIO	
73	VCAP	Power		
74	VSS	Power		
75	VDD	Power		
76	PA14 (JTCK/SWCLK)	I/O	DEBUG_JTCK-SWCLK	
92	PB6	I/O	QUADSPI_BK1_NCS	
94	воото	Boot		
99	VSS	Power		
100	VDD	Power		

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

^{*} The pin is affected with a peripheral function but no peripheral mode is activated

4. Clock Tree Configuration



Page 4

1. Power Consumption Calculator report

1.1. Microcontroller Selection

Series	STM32H7
Line	STM32H743/753
MCU	STM32H743VITx
Datasheet	DS12110_Rev8

1.2. Parameter Selection

Temperature	25
Vdd	3.0

1.3. Battery Selection

Battery	Alkaline(9V)	
Capacity	625.0 mAh	
Self Discharge	0.3 %/month	
Nominal Voltage	9.0 V	
Max Cont Current	200.0 mA	
Max Pulse Current	0.0 mA	
Cells in series	1	
Cells in parallel	1	

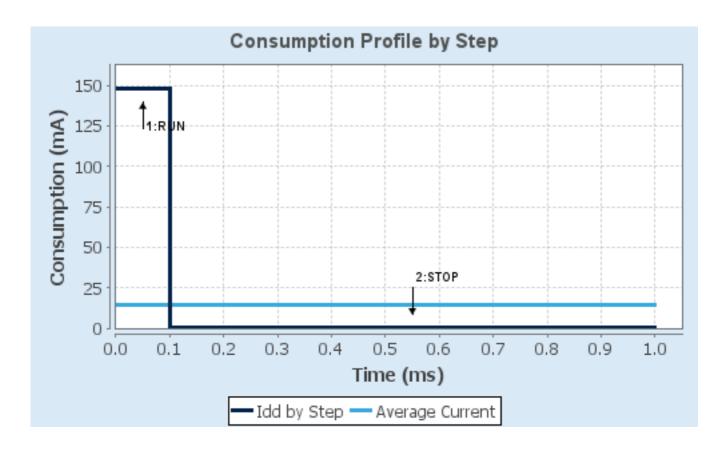
1.4. Sequence

		1
Step	Step1	Step2
Mode	RUN	STOP
Vdd	3.0	3.0
Voltage Source	Battery	Battery
Range	VOS0: Scale0-High	SVOS5: System-Scale5
D1 Mode	DRUN/CRUN	DSTANDBY
D2 Mode	DRUN	DSTANDBY
D3 Mode	DRUN	DSTOP
Fetch Type	ITCM	NA
CPU Frequency	480 MHz	0 Hz
Clock Configuration	HSE BYP PLL	Flash-OFF
Clock Source Frequency	24 MHz	0 Hz
Peripherals		
Additional Cons.	0 mA	0 mA
Average Current	148 mA	150 μΑ
Duration	0.1 ms	0.9 ms
DMIPS	1027.0	0.0
Ta Max	105.02	124.98
Category	In DS Table	In DS Table

1.5. Results

Sequence Time	1 ms	Average Current	14.94 mA
Battery Life	1 day, 17 hours	Average DMIPS	1027.2001
	-	-	DMIPS

1.6. Chart



2. Software Project

2.1. Project Settings

Name	Value
Project Name	DevEBox
Project Folder	C:\Users\Butch\STM32CubelDE\workspace_1.17.0\DevEBox
Toolchain / IDE	STM32CubeIDE
Firmware Package Name and Version	STM32Cube FW_H7 V1.12.1
Application Structure	Advanced
Generate Under Root	Yes
Do not generate the main()	No
Minimum Heap Size	0x800
Minimum Stack Size	0x800

2.2. 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	Yes
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

2.3. Advanced Settings - Generated Function Calls

Rank	Function Name	Peripheral Instance Name
1	MX_GPIO_Init	GPIO
2	SystemClock_Config	RCC
3	MX_QUADSPI_Init	QUADSPI
4	MX_USB_DEVICE_Init	USB_DEVICE

3. Peripherals and Middlewares Configuration

3.1. DEBUG

Debug: Serial Wire

3.2. MEMORYMAP

mode: Activated

3.3. QUADSPI

QuadSPI Mode: Bank1 with Quad SPI Lines

3.3.1. Parameter Settings:

General Parameters:

Clock Prescaler 2 *
Fifo Threshold 4 *

Sample Shifting No Sample Shifting

Flash Size

Device Type

Not defined

Chip Select High Time

1 Cycle

Clock Mode

Low

Flash ID

Dual Flash

Disabled

3.4. RCC

High Speed Clock (HSE): BYPASS Clock Source

3.4.1. Parameter Settings:

Power Parameters:

SupplySource PWR_LDO_SUPPLY

Power Regulator Voltage Scale Power Regulator Voltage Scale 3

RCC Parameters:

TIM Prescaler Selection Disabled
HSE Startup Timout Value (ms) 100
LSE Startup Timout Value (ms) 5000
CSI Calibration Value 32
HSI Calibration Value 64

System Parameters:

VDD voltage (V) 3.3

Flash Latency(WS) 1 WS (2 CPU cycle)

Product revision rev.V

PLL range Parameters:

PLL1 clock Input range

PLL3 input frequency range

Between 1 and 2 MHz

Between 8 and 16 MHz

PLL1 clock Output range

Wide VCO range

PLL3 clock Output range

Wide VCO range

3.5. SYS

Timebase Source: SysTick

3.6. USB_OTG_FS

Mode: Device_Only

3.6.1. Parameter Settings:

Speed Full Speed 12MBit/s

Enable internal IP DMA

Low power

Disabled

Battery charging

Disabled

Link Power Management

Use dedicated end point 1 interrupt

VBUS sensing

Disabled

Signal start of frame

Disabled

3.7. STMicroelectronics.X-CUBE-AI.9.1.0

3.8. USB DEVICE

Class For FS IP: Communication Device Class (Virtual Port Com)

3.8.1. Parameter Settings:

Basic Parameters:

USBD_MAX_NUM_INTERFACES (Maximum number of supported interfaces)

USBD_MAX_NUM_CONFIGURATION (Maximum number of supported configuration)

USBD_MAX_STR_DESC_SIZ (Maximum size for the string descriptors)

512

USBD_SELF_POWERED (Enabled self power)

Enabled

USBD_DEBUG_LEVEL (USBD Debug Level) 0: No debug message

USBD_LPM_ENABLED (Link Power Management) 1: Link Power Management supported

Class Parameters:

USB CDC Rx Buffer Size 2048
USB CDC Tx Buffer Size 2048

3.8.2. Device Descriptor:

Device Descriptor:

VID (Vendor IDentifier) 1155

LANGID_STRING (Language Identifier) English (United States)

MANUFACTURER_STRING (Manufacturer Identifier) STMicroelectronics

Device Descriptor FS:

PID (Product IDentifier) 22336

PRODUCT_STRING (Product Identifier) STM32 Virtual ComPort

CONFIGURATION_STRING (Configuration Identifier)

INTERFACE_STRING (Interface Identifier)

CDC Interface

CDC Interface

^{*} User modified value

4. System Configuration

4.1. GPIO configuration

IP	Pin	Signal	GPIO mode	GPIO pull/up pull down	Max Speed	User Label
DEBUG	PA13 (JTMS/SWDI O)	DEBUG_JTMS- SWDIO	n/a	n/a	n/a	
	PA14 (JTCK/SWC LK)	DEBUG_JTCK- SWCLK	n/a	n/a	n/a	
QUADSPI	PE2	QUADSPI_BK1_I O2	Alternate Function Push Pull	No pull-up and no pull-down	Very High	
	PB2	QUADSPI_CLK	Alternate Function Push Pull	No pull-up and no pull-down	Very High	
	PD11	QUADSPI_BK1_I O0	Alternate Function Push Pull	No pull-up and no pull-down	Very High	
	PD12	QUADSPI_BK1_I O1	Alternate Function Push Pull	No pull-up and no pull-down	Very High	
	PD13	QUADSPI_BK1_I O3	Alternate Function Push Pull	No pull-up and no pull-down	Very High	
	PB6	QUADSPI_BK1_ NCS	Alternate Function Push Pull	Pull-up *	Very High	
RCC	PH0- OSC_IN (PH0)	RCC_OSC_IN	n/a	n/a	n/a	
USB_OTG_ FS	PA11	USB_OTG_FS_ DM	Alternate Function Push Pull	No pull-up and no pull-down	Low	
	PA12	USB_OTG_FS_ DP	Alternate Function Push Pull	No pull-up and no pull-down	Low	
Single Mapped Signals	PH1- OSC_OUT (PH1)	RCC_OSC_OUT	n/a	n/a	n/a	
GPIO	PA1	GPIO_Output	Output Push Pull	No pull-up and no pull-down	Low	LED2

4.2. DMA configuration

nothing configured in DMA service

4.3. BDMA configuration

nothing configured in DMA service

4.4. MDMA configuration

nothing configured in DMA service

4.5. NVIC configuration

4.5.1. 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
Pre-fetch 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	0	0
USB On The Go FS global interrupt	true	0	0
PVD and AVD interrupts through EXTI line 16		unused	
Flash global interrupt		unused	
RCC global interrupt		unused	
FPU global interrupt		unused	
QUADSPI global interrupt	unused		
USB On The Go FS End Point 1 Out global	unused		
interrupt			
USB On The Go FS End Point 1 In global interrupt		unused	
HSEM1 global interrupt		unused	

4.5.2. NVIC Code generation

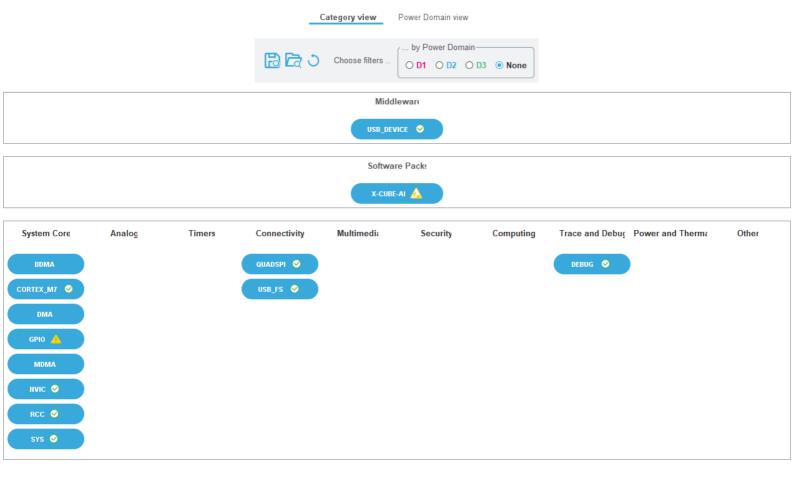
Enabled interrupt Table	Select for init sequence ordering	Generate IRQ handler	Call HAL handler
Non maskable interrupt	false	true	false
Hard fault interrupt	false	true	false
Memory management fault	false	true	false
Pre-fetch fault, memory access fault	false	true	false
Undefined instruction or illegal 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
USB On The Go FS global interrupt	false	true	true

* User modified value

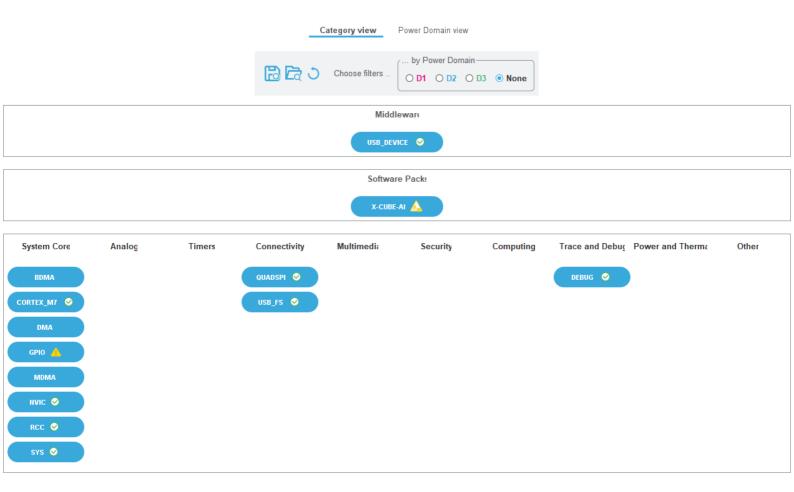
5. System Views

5.1. Category view

5.1.1. Current



5.1.2. Without filters



5.2. Power Domain view



Power Domain view

6. Software Pack Report

6.1. Software Pack selected

Vendor	Name	Version	Component
STMicroelectronic	X-CUBE-AI	9.1.0	Class : Artificial
s			Intelligence
			Group : Core
			Version : 9.1.0

7. Docs & Resources

Type Link

BSDL files https://www.st.com/resource/en/bsdl_model/stm32h7_bsdl.zip

IBIS models https://www.st.com/resource/en/ibis_model/stm32h7_ibis.zip

System View https://www.st.com/resource/en/svd/stm32h7-svd.zip

Description

Presentations https://www.st.com/resource/en/product_presentation/microcontrollers_st

m32h7_series_product_overview.pdf

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stm8_embedded_software_solutions.pdf

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tools_portfolio.pdf

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onal-safety-packages.pdf

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stm32-family-overview.pdf

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guide-for-stm8-stm32-and-legacy-mcus-stmicroelectronics.pdf

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microcontroller-system-memory-boot-mode-stmicroelectronics.pdf

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- Application Notes https://www.st.com/resource/en/application_note/an4891-stm32h72x-stm32h73x-and-singlecore-stm32h74x75x-system-architecture-and-performance-stmicroelectronics.pdf

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- memory-protection-unit-management-on-stm32-mcusstmicroelectronics.pdf
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& Software application-stmicroelectronics.pdf

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for related Tools inapplication-programming-iap-using-the-usart-stmicroelectronics.pdf

& Software

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