

Target Selection

Select STM32 target

MCU/MPU Selector Board Selector Cross Selector

Board Filters



Part Number Search

nucleo-h743zi2

Vendor

Type

MCU/MPU Series

Other

Price = 0.0

Oscillator Freq. = 0 (MHz)

Peripheral

<input checked="" type="checkbox"/>	Accelerometer	0	0
<input checked="" type="checkbox"/>	Analog I/O	0	0
<input checked="" type="checkbox"/>	Arduino Form Factor	0	0
<input checked="" type="checkbox"/>	Audio Line In	0	0
<input checked="" type="checkbox"/>	Audio Line Out	0	0
<input checked="" type="checkbox"/>	Battery		
<input checked="" type="checkbox"/>	Button	0	2
<input checked="" type="checkbox"/>	CAN	0	0
<input checked="" type="checkbox"/>	Camera		
<input checked="" type="checkbox"/>	Compass		
<input checked="" type="checkbox"/>	Custom Form Factor	0	0
<input checked="" type="checkbox"/>	Digital I/O	0	244
<input checked="" type="checkbox"/>	Ethernet	<input type="checkbox"/>	
<input checked="" type="checkbox"/>	Gyroscope		

Features

Large Picture

Docs & Resources

Datasheet

Buy

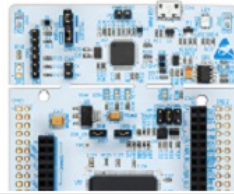
★ NUCLEO-H743ZI2



STMicroelectronics NUCLEO-H743ZI2 Board Support and Examples

Unit Price (US\$) : 0.0

Mounted device: [STM32H743ZITx](#)



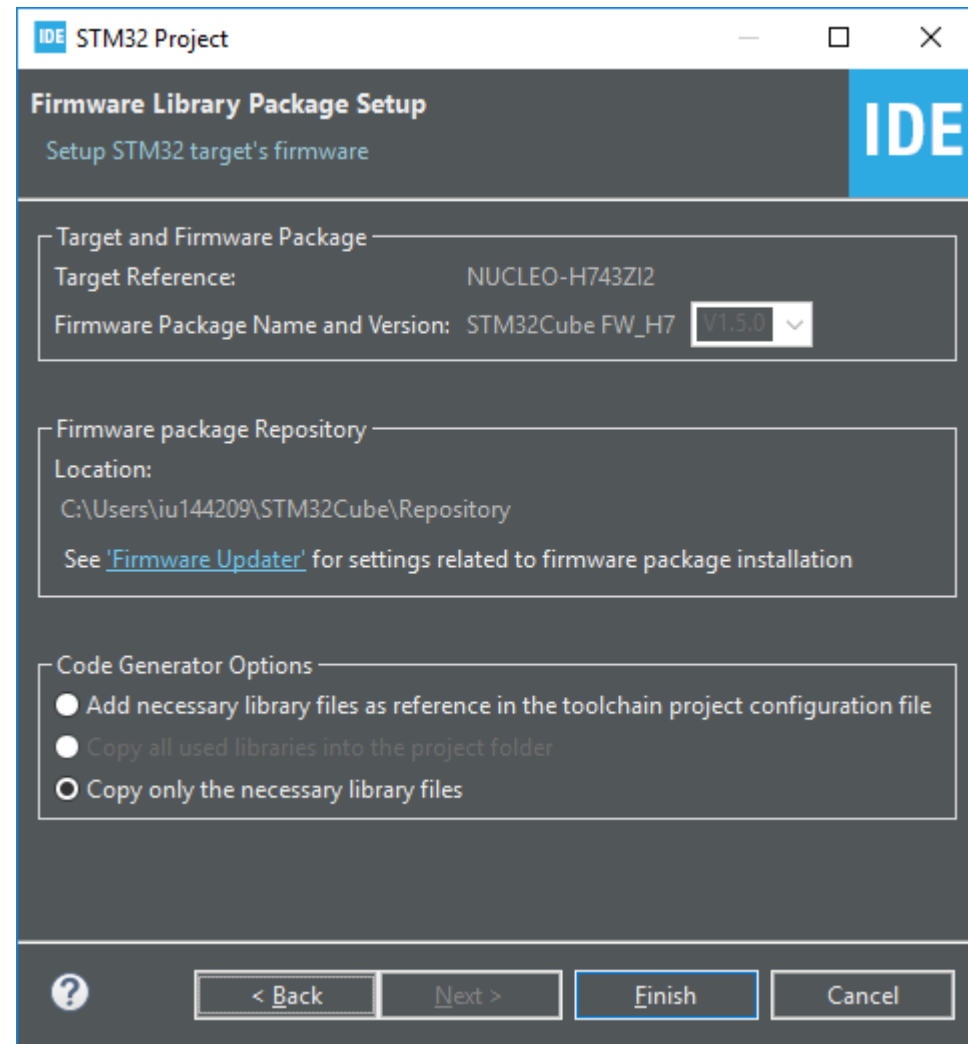
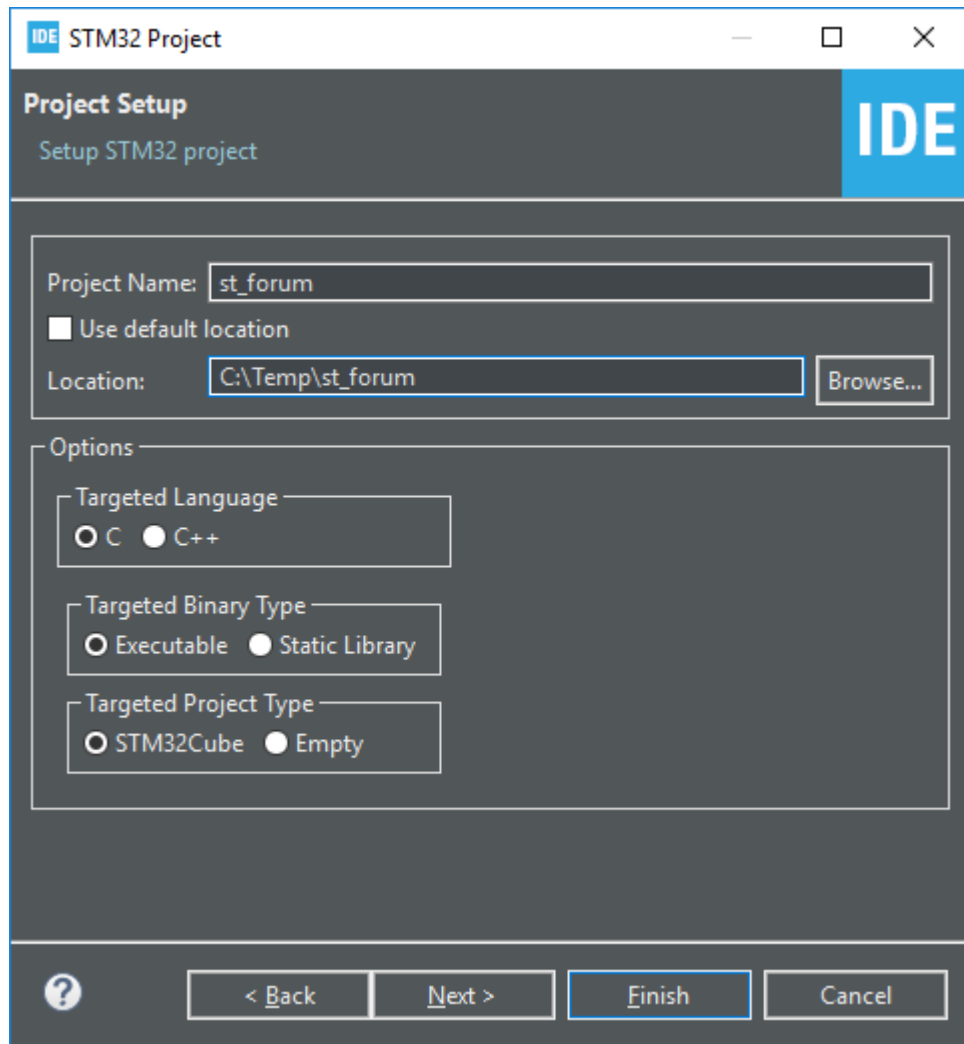
Features

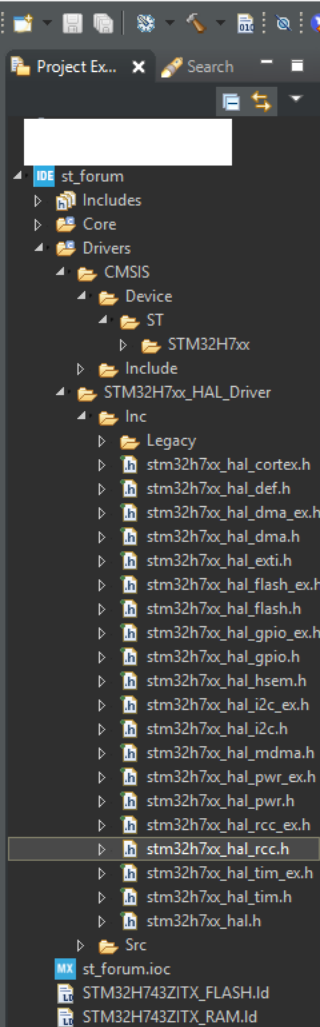
- On-board ST-LINK/V3

Boards List: 1 item

Export

*	Overview	Part No	Type	Marketing Status	Unit Price (US\$)	Mounted Device
★		NUCLEO-H743ZI2	Nucleo144		0.0	STM32H743ZITx

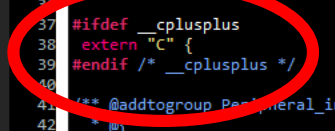




```

1  /**
2  *
3  * @file stm32h743xx.h
4  * @author MCD Application Team
5  * @brief CMSIS STM32H743xx Device Peripheral Access
6  *
7  * This file contains:
8  * - Data structures and the address mapping
9  * - Peripheral's registers declarations and
10 * - Macros to access peripheral's register
11 *
12 *
13 * @attention
14 *
15 * <h2><center>&copy; Copyright (c) 2017 STMicroelectro
16 * All rights reserved.</center></h2>
17 *
18 * This software component is licensed by ST under BSD
19 * the "License"; You may not use this file except in
20 * License. You may obtain a copy of the License at:
21 * opensource.org/licenses/BSD-
22 *
23 *
24 */
25
26 /** @addtogroup CMSIS_Device
27 * @{
28 */
29
30 /** @addtogroup stm32h743xx
31 * @{
32 */
33
34 #ifndef STM32H743xx_H
35 #define STM32H743xx_H
36
37 #ifndef __cplusplus
38 extern "C" {
39 #endif /* __cplusplus */
40
41 /** @addtogroup Peripheral_interrupt_number_definition
42 * @{
43 */
44
45 /**

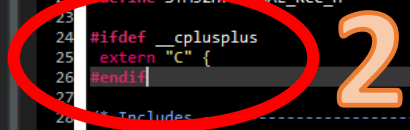
```



```

1  /**
2  *
3  * @file stm32h7xx_hal_rcc.h
4  * @author MCD Application Team
5  * @brief Header file of RCC HAL module.
6  *
7  * @attention
8  *
9  * <h2><center>&copy; COPYRIGHT(c) 2017 STMicroelectro
10 * All rights reserved.</center></h2>
11 *
12 * This software component is licensed by ST under BSD
13 * the "License"; You may not use this file except in
14 * License. You may obtain a copy of the License at:
15 * opensource.org/licenses/BSD-
16 *
17 *
18 */
19
20 /* Define to prevent recursive inclusion -----
21 #ifndef STM32H7xx_HAL_RCC_H
22 #define STM32H7xx_HAL_RCC_H
23
24 #ifndef __cplusplus
25 extern "C" {
26 #endif
27
28 /* Includes -----
29 #include "stm32h7xx_hal_def.h"
30
31 /** @addtogroup STM32H7xx_HAL_Driver
32 * @{
33 */
34
35 /** @addtogroup RCC
36 * @{
37 */
38
39 /* Exported types -----
40
41 /** @defgroup RCC_Exported_Types RCC Exported Types
42 * @{
43 */
44
45 /**

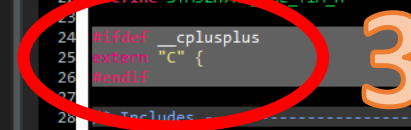
```



```

1  /**
2  *
3  * @file stm32h7xx_hal_tim.h
4  * @author MCD Application Team
5  * @brief Header file of TIM HAL module.
6  *
7  * @attention
8  *
9  * <h2><center>&copy; Copyright (c) 2017 STMicroelect
10 * All rights reserved.</center></h2>
11 *
12 * This software component is licensed by ST under BS
13 * the "License"; You may not use this file except in
14 * License. You may obtain a copy of the license at:
15 * opensource.org/licenses/BSD
16 *
17 *
18 */
19
20 /* Define to prevent recursive inclusion -----
21 #ifndef STM32H7xx_HAL_TIM_H
22 #define STM32H7xx_HAL_TIM_H
23
24 #ifndef __cplusplus
25 extern "C" {
26 #endif
27
28 /* Includes -----
29 #include "stm32h7xx_hal_def.h"
30
31 /** @addtogroup STM32H7xx_HAL_Driver
32 * @{
33 */
34
35 /** @addtogroup TIM
36 * @{
37 */
38
39 /* Exported types -----
40
41 /** @defgroup TIM_Exported_Types TIM Exported Types
42 * @{
43 */
44
45 /**

```



Outline is disabled due to scalability mode (options).

Problems Tasks Console Properties

No consoles to display at this time.

Debug X

st_forum Debug [STM32 Cortex-M C/C++ Application]

- st_forum.elf [cores: 0]
 - Thread #1 [main] 1 [core: 0] (Suspended : Breakpoint)
 - main() at main.c:78 0x80002dc
 - Reset_Handler() at startup_stm32h743zibc.s:97 0x80006ea
 - C:/Program Files/STM32CubeIDE/STM32CubeIDE/plugins/com.st.stm32cube.ide.mc...
 - ST-LINK (ST-LINK GDB server)

Breakpoints X **Variables** X

Name	Type	Value

Registers SFRs **Expressions** X **Debugger Console**

Expression	Type	Value
ADC1		Error: Multiple errors reported.\ Unable ...
COMP1		Error: Multiple errors reported.\ Failed L...
TIM4	TIM_TypeDef *	0x40000800
+ Add new expression		

main.c X 0x800d7cc

```

66  * @retval int
67  */
68  int main(void)
69  {
70  /* USER CODE BEGIN 1 */
71  /* USER CODE END 1 */
72
73  /* MCU Configuration-----*/
74
75  /* Reset of all peripherals, Initializes the Flash interface and the Systick. */
76  HAL_Init();
77
78  /* USER CODE BEGIN Init */
79
80  /* USER CODE END Init */
81
82  /* Configure the system clock */
83  SystemClock_Config();
84
85  /* USER CODE BEGIN SysInit */
86
87  /* USER CODE END SysInit */
88
89  /* Initialize all configured peripherals */
90  MX_GPIO_Init();
91  MX_TIM2_Init();
92
93

```

Multiple errors reported.

- 1) Unable to create variable object
- 2) Failed to execute MI command:
-data-evaluate-expression ADC1
Error message from debugger back end:
No symbol "ADC_TypeDef" in current context.
- 3) Failed to execute MI command:
-var-create - * ADC1
Error message from debugger back end:
-var-create: unable to create variable object
- 4) Failed to execute MI command:
-var-create - * ADC1
Error message from debugger back end:
-var-create: unable to create variable object

Console X **Memory** **Problems**

st_forum Debug [STM32 Cortex-M C/C++ Application] ST-LINK (ST-LINK GDB server)
Verifying ...

Download verified successfully