

FAQ0006

Frequently Asked Questions

Device unmatch causes compiling error

Questions:

In Keil_V5, when the device part number in the "Target->Device" are not the same as that in the "Target->C/C++ ", compilation error may occur. The error message will be displayed, such as the following:

```
..\..\..\Libraries\CMSIS\CM4\DeviceSupport\at32f4xx.h(1193): error: $101: "TMR8 TRG_COM_TMR14_IRQn" has already been declared in TMR8_TRG_COM_TMR14_IRQn = 45, /*!< TMR8 Trigger and Commutation Interrupt */
.\..\..\..\Libraries\CMSIS\CM4\DeviceSupport\at32f4xx.h(1194): error: $101: "TMR8_CC_IRQn" has already been declared in the current TMR8_CC_IRQn = 46, /*!< TMR8_Capture Compare Interrupt */
.\..\..\Libraries\CMSIS\CM4\DeviceSupport\at32f4xx.h(1195): error: $101: "ADC3_IRQn" has already been declared in the current sc_ADC3_IRQn = 47, /*!< ADC3_Global Interrupt */
.\..\..\..\Libraries\AT32F4xx_StdPeriph_Driver\src\misc.c: 0 warnings, 30 errors
```

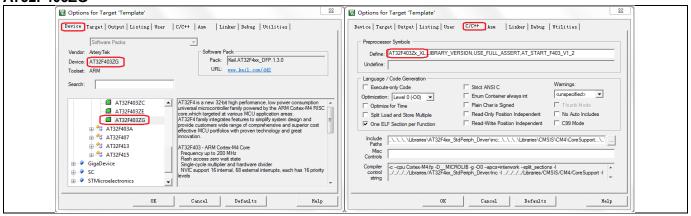
Answer:

In PACK_V1.3.0 and above, the KEIL RTE function is added. After the Device is selected, the Pack will automatically define a part number macro (such as AT32F403ZG AT32F403Zx_XL, AT32F403AVGT7 AT32F403AVGT7)

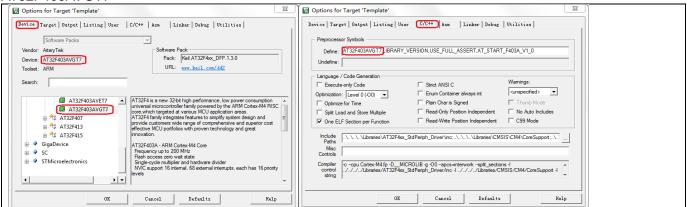
Example:

Taking AT32F403ZG and AT32F403AVGT7 as an example, a strict correspondence should be followed during project configuration. The configuration relationship between "Target->Device" and "Target->C/C++ "should be as follows:

AT32F403ZG



AT32F403AVGT7

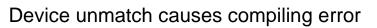




Type: Development tool

Applicable products: All MCUs

Main function: None Minor function: None





Document revision history

| Date | Revision | Changes |
|-----------|----------|-----------------|
| 2022.2.16 | 2.0.0 | Initial release |



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