

## How to use AT32F415 AT32F421 ERTC Calendar

## Introduction

This sample code demonstrates how to use ERTC calendar in AT32F415 and AT32F421 series.

*Note: This sample code is written based on Artery's V2.x.x BSP. For other versions of BSP, users should pay attention to the differences in use.*

Applicable products:

Product series	AT32F415xx
	AT32F421xx

List of major peripherals used:

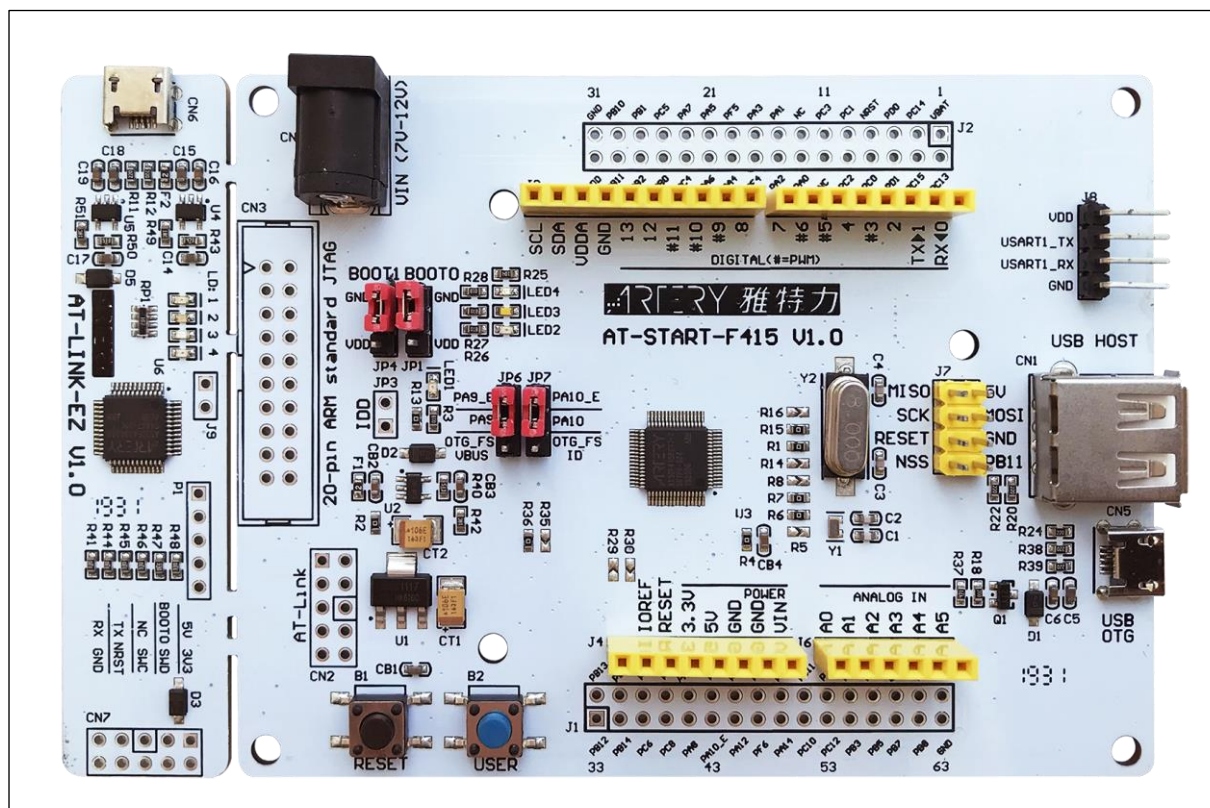
Peripherals	ERTC
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## 1 Quick start

## 1.1 Hardware resources

- 1) AT-START-F415 V1.0 and AT-START-F421 V1.0 evaluation boards
- 2) Serial interfaces: PA9, PA10

**Figure 1. AT-START-F415 V1.0 evaluation board**



## 1.2 Software resources

- 1) SourceCode
  - ERTC Calendar

*Note: All of projects are built based on Keil 5. For the need to run them in other compiling environments, user can make simple adjustments according to AT32xxx\_Firmware\_Library\_V2.x.x\project\at\_start\_xxx\templates.*

### 1.3 Example case

- 1) Open "ERTC\_Calendar" source code, compile and download it to the evaluation board
- 2) If AT-START-F421 V1.0 board is to be used, please choose AT\_START\_421 project
- 3) View calendar print information via serial interfaces

Figure 2. Calendar print information

```
ertc has not been initialized
Time: 21-05-01 12:00:00
Alarm: 12:00:10

21-05-01 12:00:01
21-05-01 12:00:02
21-05-01 12:00:03
21-05-01 12:00:04
21-05-01 12:00:05
21-05-01 12:00:06
21-05-01 12:00:07
21-05-01 12:00:08
21-05-01 12:00:09
Alarm: 12:00:10
21-05-01 12:00:10
21-05-01 12:00:11
```

## 2 Revision history

Table 1. Document revision history

Date	Revision	Changes
2021.12.20	2.0.0	Initial release

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