

## AT32F4xx TMR Suspend Mode

## Introduction

This sample code demonstrates how to use TMR Suspend mode in AT32F4xx 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	AT32F4xx series
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List of major peripherals used:

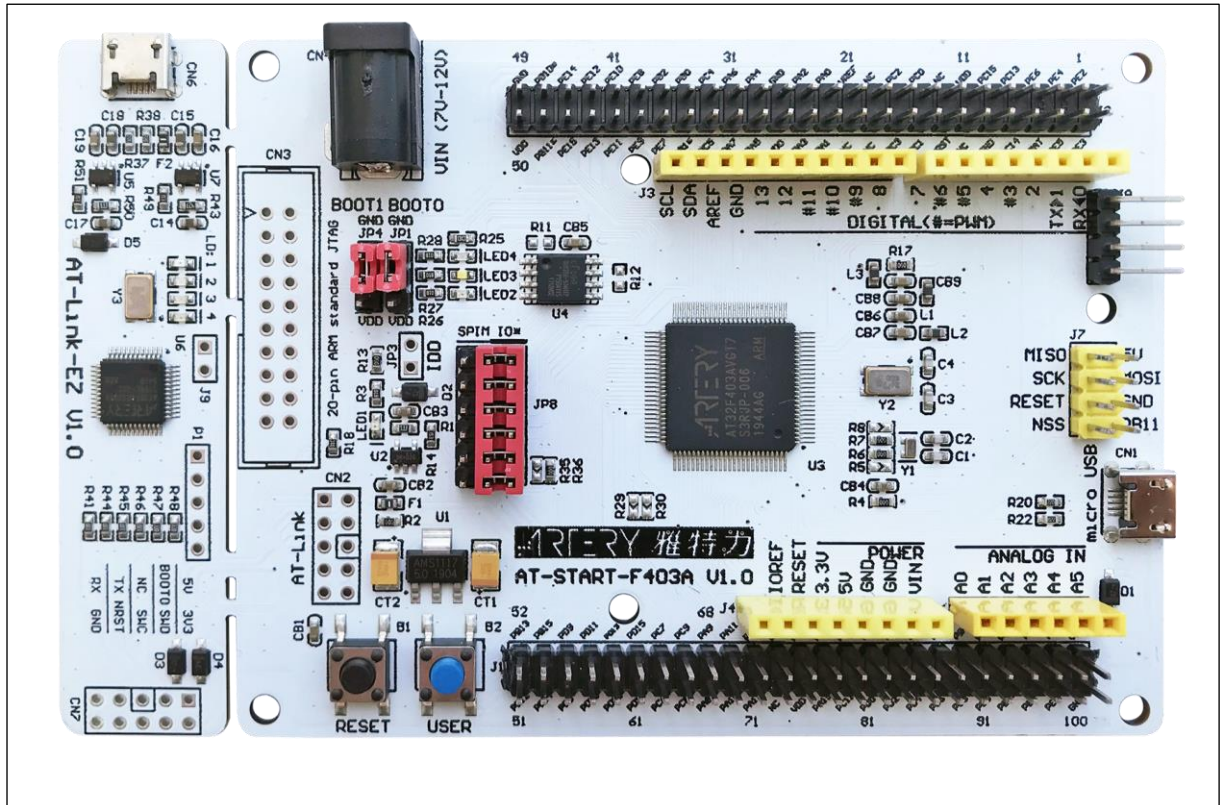
Peripherals	TMR
	GPIO

# 1 Quick start

## 1.1 Hardware resources

- 1) AT-START-F403A V1.0 evaluation board (use evaluation board corresponding to specific product series)

Figure 1. AT-START-F403A V1.0 evaluation board



## 1.2 Software resources

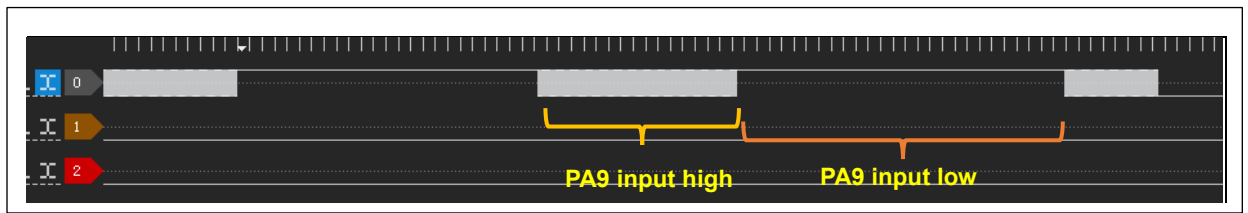
- 1) SourceCode
  - hang\_mode

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 "hang\_Mode" source code, compile and download it to the evaluation board
- 2) As the AT-START-F403A V1.0 board is used in the example, we choose AT32F403A project here
- 3) Reset the evaluation board, and use logic analyzer to output waveforms of PA8
- 4) Whether to output waveforms on PA8 depends on PA9 input level. When PA9 input low, PA8 has no PWM output; when PA9 input high, PA8 outputs PWM.

Figure 2. View result



## 2 Revision history

**Table 1. Document revision history**

Date	Revision	Changes
2021.12.06	2.0.0	Initial release

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