

AT32F4xx USART Communications Using Interrupts

Introduction

This sample code demonstrates how to use AT32F403Axx USART interrupt mode for communication purposes.

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 | AT32F403Axx |
|----------------|-------------|

List of major peripherals used:

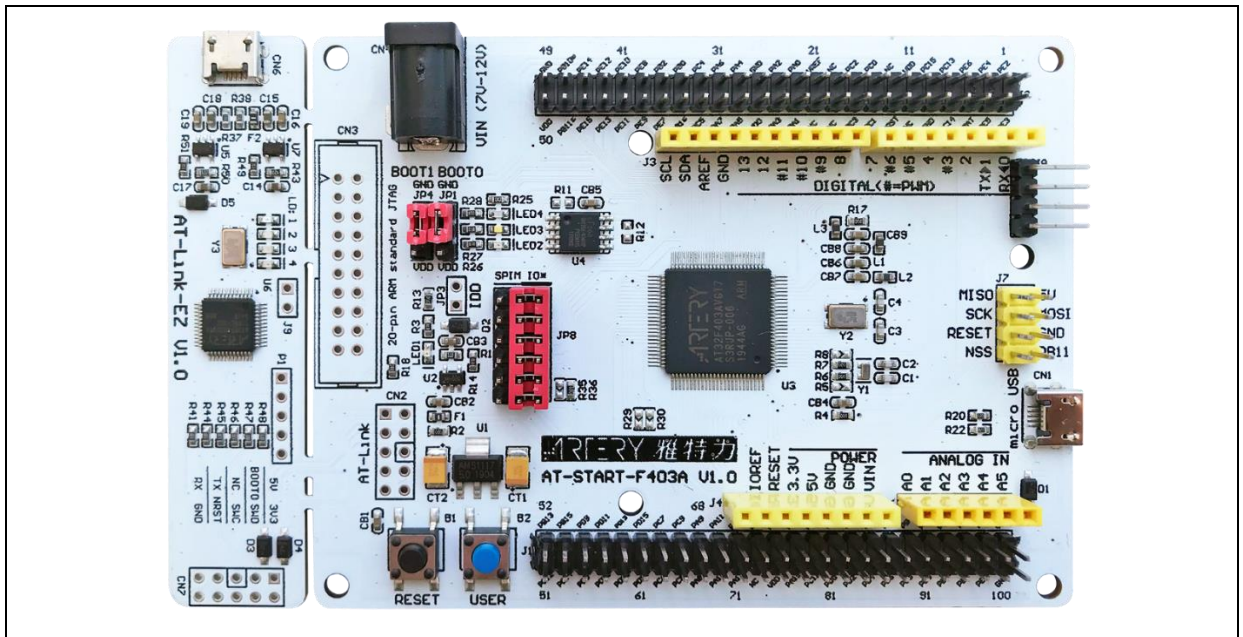
| | |
|-------------|-------|
| Peripherals | USART |
|-------------|-------|

1 Quick start

1.1 Hardware resources

- 1) AT-START-F403A V1.0 evaluation board (select evaluation board according to the corresponding MCU series)
- 2) USART2, USART3

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



1.2 Software resources

- 1) Source code
 - usart_interrupt

Note: All of projects are built based on Keil 5. For the need to run 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 usart_interrupt, compile and download it to the evaluation board AT-START-F403A
- 2) USART2 and USART3 communication mode
 - PB11 <--> PA3
 - PB10 <--> PA2
- 3) If LED2 starts blinking on the board, it means communication success.

2 Revision history

Table 1. Document revision history

| Date | Revision | Changes |
|------------|----------|-----------------|
| 2021.12.03 | 2.0.0 | Initial release |

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