

AT32F4xx Battery-Powered Domain Data Storage

Introduction

This sample code demonstrates how to store user data into battery-powered domain data register.

Applicable products:

Product series	AT32F403xx
	AT32F403Axx
	AT32F407xx

List of major peripherals used:

Peripherals	BKP
	USART

1 Quick start

1.1 Hardware resources

AT-START-F403A V1.0 evaluation board

1.2 Software resources

1. This Demo is based on AT32F403A, and AT32F403A_407_Firmware_Library_V2.x.x (BSP).
2. Enable battery-powered domain access, reset it (if it is not reset), write data into the battery-powered domain data register and read it for verification test. It should be noted that the battery-powered domains is supplied by VBAT, meaning that its data will not be lost after VDD power-off, as long as VBAT is powered by battery.

1.3 Example case

- 1) Connect USART1_TX (PA9) through a serial interface assistant to view print information, so as to check if data have been written in the battery-powered domain.

Table 1. Document revision history

Date	Revision	Changes
2021.12.03	2.0.0	Initial release

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