

AT32F4xx Watchdog

Introduction

This example code demonstrates how to use WDT (watchdog) in AT32F4xx series.

Applicable products:

Product series	AT32Fxx series
----------------	----------------

List of major peripherals used:

Peripherals	WDT
-------------	-----

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 version)
2. After reset, program will set and enable WDT, and continuously feed the watchdog in main loop to avoid WDT reset. However, Pressing "USER_KEY" can send program into endless loop and make it unable to feed the watchdog so that the watchdog is reset and LED4 will light up accordingly.

1.3 Example case

- 1) After reset, the program will enable WDT and feed it at the predefined interval;
- 2) Pressing USER_KEY at any time will send the program into endless loop and make it unable to feed the watchdog
- 3) WDT is reset, the program is re-activated, and LED4 lights up

Table 1. Document revision history

Date	Revision	Changes
2021.12.02	2.0.0	Initial release

Purchasers are solely responsible for the selection and use of ARTERY's products and services, and ARTERY assumes no liability whatsoever relating to the choice, selection or use of the ARTERY products and services described herein.

No license, express or implied, to any intellectual property rights is granted under this document. If any part of this document deals with any third party products or services, it shall not be deemed a license grant by ARTERY for the use of such third party products or services, or any intellectual property contained therein, or considered as a warranty regarding the use in any manner whatsoever of such third party products or services or any intellectual property contained therein.

Unless otherwise specified in ARTERY's terms and conditions of sale, ARTERY provides no warranties, express or implied, regarding the use and/or sale of ARTERY products, including but not limited to any implied warranties of merchantability, fitness for a particular purpose (and their equivalents under the laws of any jurisdiction), or infringement of any patent, copyright or other intellectual property right.

Purchasers hereby agrees that ARTERY's products are not designed or authorized for use in: (A) any application with special requirements of safety such as life support and active implantable device, or system with functional safety requirements; (B) any air craft application; (C) any automotive application or environment; (D) any space application or environment, and/or (E) any weapon application. Purchasers' unauthorized use of them in the aforementioned applications, even if with a written notice, is solely at purchasers' risk, and is solely responsible for meeting all legal and regulatory requirement in such use.

Resale of ARTERY products with provisions different from the statements and/or technical features stated in this document shall immediately void any warranty grant by ARTERY for ARTERY products or services described herein and shall not create or expand in any manner whatsoever, any liability of ARTERY.