

SC0095_AT32F435_437_USB_MSC_SDIO

Introduction

This sample code demonstrates how to use AT32F437 MCU as a U disk through its USB and SD card.

Applicable products:

Product series	AT32F435 series
	AT32F437 series

List of major peripherals used:

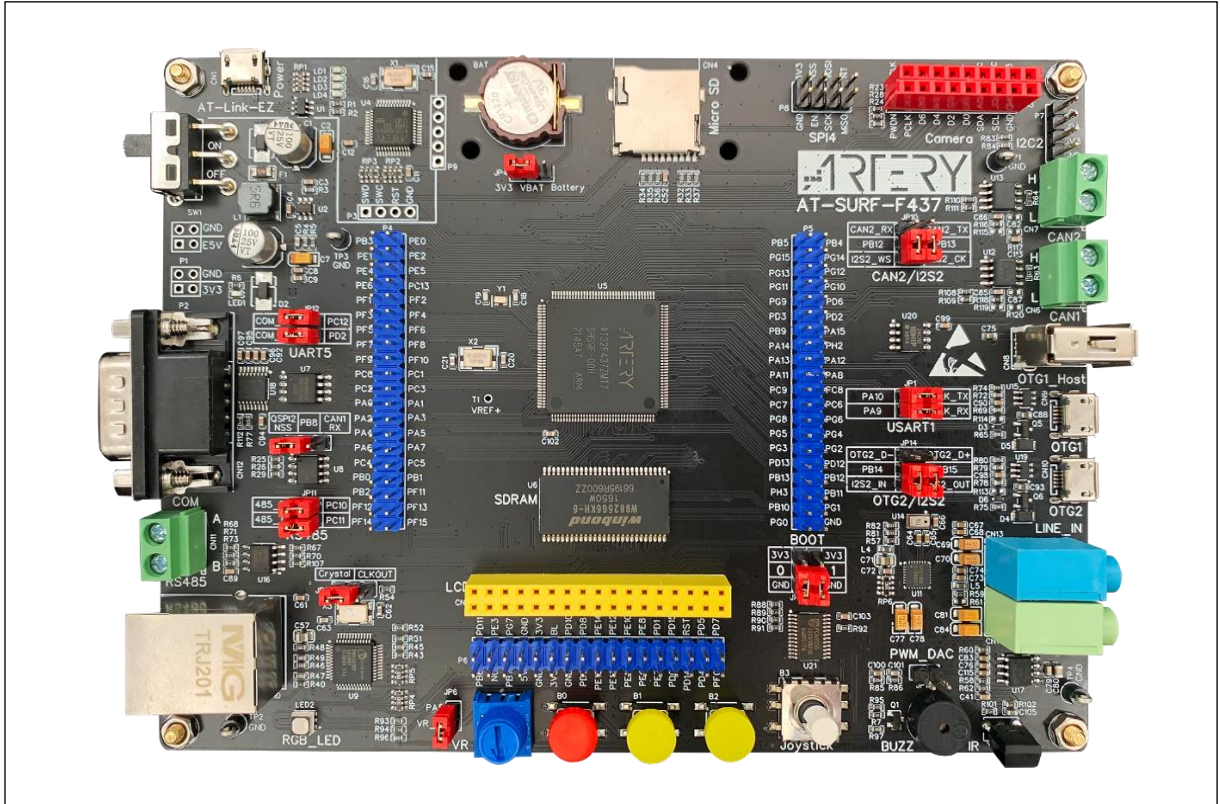
Peripherals	USB/SDIO
-------------	----------

1 Quick start

1.1 Hardware resources

- 1) AT-SURF-F437 evaluation board

Figure 1. AT-SURF-F437 evaluation board



1.2 Software resources

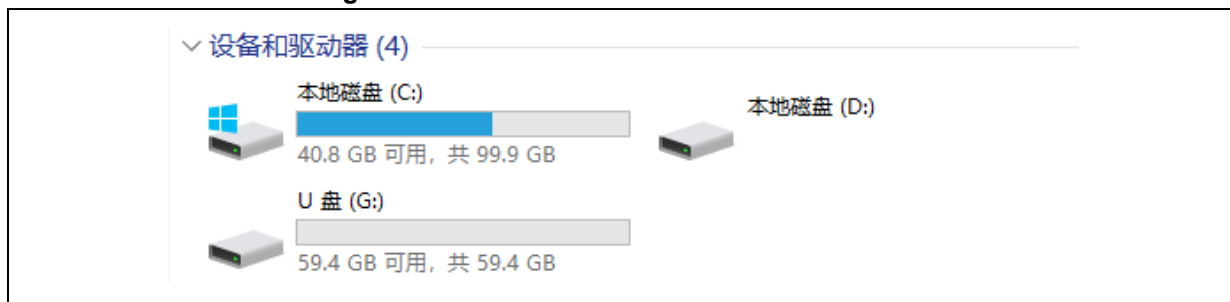
- 1) SourceCode
 - SC0095\SourceCode\SC0095_SourceCode_V2.0.0\utilities\SC0095_demo
- 2) The code recognizes MCU as a large memory device, while the received data are written to SD card

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 SC0095 source code, and download to AT-SURF-F437 evaluation board
- 2) Insert Micro SD card, remove JP12 jumper cap, connect evaluation board's USB to master
- 3) Now you can see that the evaluation board is identified as USB disk by PC.

Figure 2. PC identifies evaluation board as U disk



4) Conduct transfer test. A winrar (Desktop.rar) can be transmitted to SD card.

Figure 3. Device manager display on PC side

名称	修改日期	类型	大小
at32		文本文档	1 KB
Desktop	2022/1/25 13:23	WinRAR 压缩文件	13 KB

2 Revision history

Table 1. Document revision history

Date	Revision	Changes
2022.7.26	2.0.0	Initial release

IMPORTANT NOTICE – PLEASE READ CAREFULLY

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 granted 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 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 on any patent, copyright or other intellectual property right.

Purchasers hereby agree 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 aircraft application; (C) any aerospace application or environment; (D) any weapon application, and/or (E) or other uses where the failure of the device or product could result in personal injury, death, property damage. Purchasers' unauthorized use of them in the aforementioned applications, even if with a written notice, is solely at purchasers' risk, and Purchasers are solely responsible for meeting all legal and regulatory requirements in such use.

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