

SC0105

Sample Code

AT32F435/437 OTG1 Host OTG2 Device

Introduction

This sample code demonstrates the application of two OTGs (OTG1: Host mode, OTG2: Device mode), where OTG1 Host mode supports HID composite devices (HID, Keyboard, mouse) and OTG2 serves as a HID device.

Note: The corresponding code in this application note is developed on the basis of V2.x.x BSP provided by Artery. For other versions of BSP, please pay attention to the differences in usage.

Applicable products:

1.1.				
Part number	AT32F435/437			
List of peripherals:				
Main peripheral	OTG			



1 Application method

1.1 Hardware requirements

1) AT-START-F437 V1.0 evaluation board (or the corresponding evaluation board of other series)

1.2 Software requirements

- 1) SourceCode
 - SC0105_SourceCode_V2.0.0

Note: All projects are built around keil 5. If users want to use them in other compiling environments, please refer to BSP_V2.x.x\project\xxx\templates (such as IAR6/7/8, keil 4/5) for a simple change.

1.3 Example of application

- Open the SC0105_SourceCode_V2.0.0\\utilities\otg1_host_otg2_device_demo project and download to the evaluation board. The OTG1_HOST interface can be connected to mouse, keyboard and other devices, and key actions of mouse and keyboard can be print by serial port assistant.
- 2) The OTG2 interface can be connected to PC, and the PC device manager displays a HID device. Refer to AN0097 for more details.

2022.11.02 2 Ver 2.0.0



2 Revision history

Table 1. Document revision history

Date	Version	Revision note
2022.11.02	2.0.0	Initial release.



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