

How to use AT32F4xx_DAC to output noise waveforms

Introduction

This sample code is written to demonstrate how to use AT32 MCU's DAC to output noise waveforms.

Applicable products:

Product series	AT32F4 series
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List of major peripherals used:

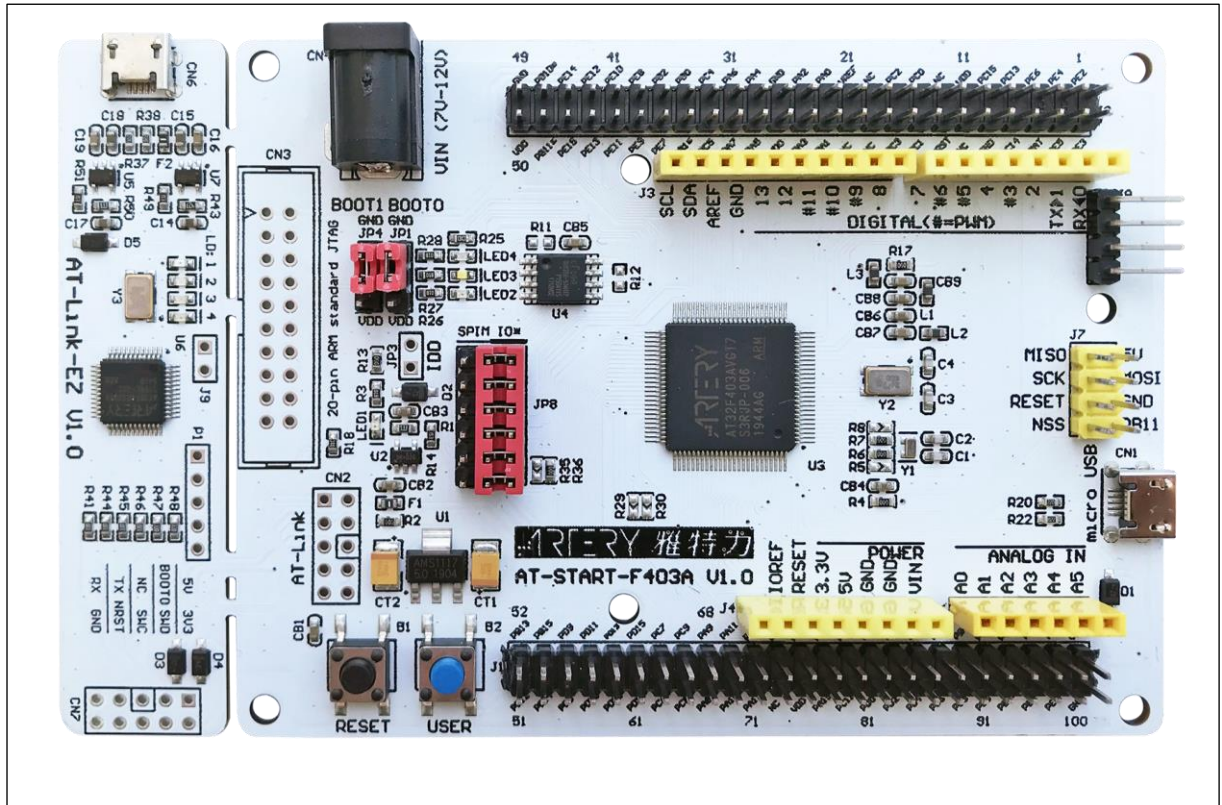
Peripherals	TMR
	DAC
	GPIO

1 Quick start

1.1 Hardware resources

- 1) AT-START-F403A V1.0 evaluation board (for other product series, please use corresponding evaluation board)

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



- 2) Waveform output PA4

1.2 Software resources

- 1) SourceCode
 - OneChannel_NoiseWave (source code)

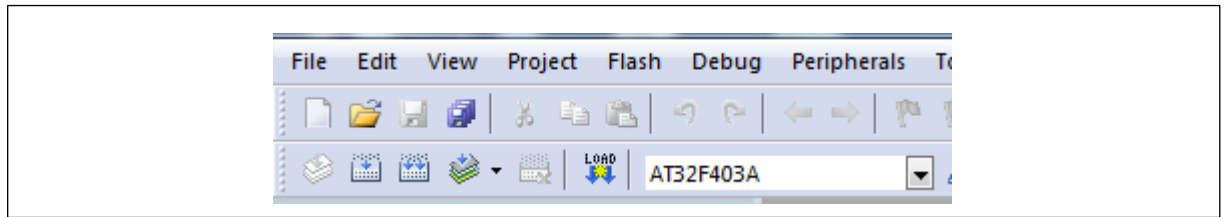
Note: All of projects are built based on Keil 5. For the need to run in other compiling environments, user can make simple adjustments according to

BSP_PACK_V1.x.x\BSPs\AT32F4xx_StdPeriph_Lib_V1.x.x\Project\Templatess.

1.3 Example case

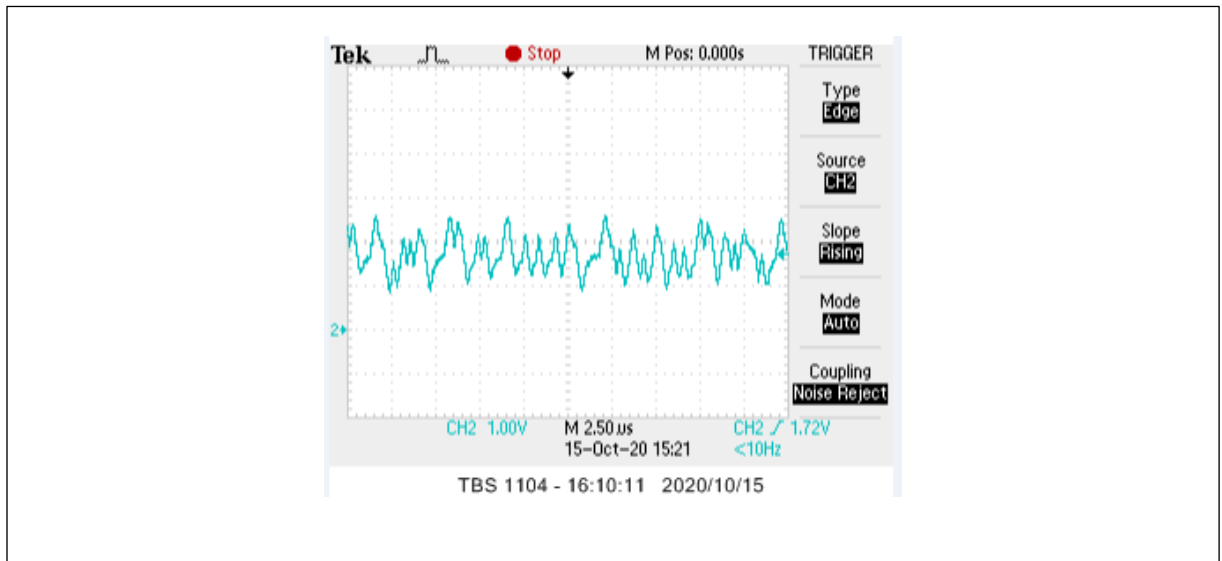
- 1) Open **OneChannel_NoiseWave**, compile and download it to the evaluation board
- 2) This test uses AT-START-F403A V1.0 evaluation board, so in Figure 4 we choose AT32F403A

Figure 2. Choose Keil project



- 3) Reset the evaluation board, and use oscilloscope to display PA4 waveforms.

Figure 3. View waveforms



2 Revision history

Table 1. Document revision history

Date	Revision	Changes
2021.12.06	2.0.0	Initial release

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