

Release Notes for AT32F425 Firmware Library

V2.1.3-2024/12/13

1. Updated core DSP library.
2. Updated CAN driver.
3. Updated USB driver.
4. Updated I2C eeprom demo and added multi-page write logic.
5. Optimized PWR driver and demo.
6. Updated some notes.

V2.1.2-2024/08/08

1. Updated USB driver.
2. Updated configuration process of PWC low-power mode related demos.
3. Updated msc iap demo for better compatibility.
4. Updated initialization configuration process of I²C DMA related demos.
5. Fixed AC6 compilation problems of some demos.
6. Updated some notes.

V2.1.1-2024/01/26

1. Updated usbd_core_type 4-byte alignment.
2. Updated USB hid report descriptor.
3. Updated some notes.

V2.1.0-2024/01/05

1. Updated the counter counting mode in input_capture demo of timer.
2. Fixed HID low-speed identification problem of some USB demos.
3. Updated systick initialization function in systick interrupt demo.
4. Added winusb demo.
5. Updated the method on how to call the xx_interrupt_flag_get function in all demos.

V2.0.9-2023/10/26

1. Updated some notes and readme.
2. Updated drivers, see drivers release notes for details.

V2.0.8-2023/08/04

1. Added AT32IDE project to demons under *utilities*.
2. Added CRC polynomial support.
3. Updated USB driver and demo, improved data alignment and code process.
4. Improved redirecting compatibility while using printf in IAR9.
5. Added macro definitions regarding Flash size and Flash demo.
6. Updated related notes.

V2.0.7-2023/02/16

1. Fixed AC6 compilation problems in freertos demo in *utilities*.
2. Added LEXT_VALUE macro definition in *at32f425_conf.h*.
3. Modified the location of crm_reset in system_clock_config function to avoid any error during system clock switch.
4. Adjusted the USB set address timing and modified USB host enumeration timeout processing flow.
5. Updated some notes.

V2.0.6-2022/11/18

1. Deleted the version and date entries from the header of each file.
2. Added *Release Notes_Drivers* to record the updates of drivers separately, which is located under *libraries\drivers*.
3. Fixed the problem of USB cdc_msc composite failure in linux environment.
4. Updated USB virtual msc iap demo for linux environment.
5. Updated USB audio related contents for better compatibility.
6. Updated IAR_Programmer.exe.
7. Added interrupt enable determination to the flag bit detection for the interrupt function of USART interrupt demo.
8. Added repeat_conversion_loop_transfer demo to ADC to allow DMA to obtain ADC data in a circular way.

V2.0.5-2022/08/16

1. Updated the I2C eeprom demo with additional 16-bit address support.
2. Added IAR V9.3 project demo under template.
3. Fixed the problem of printf's failure to output in gcc environment.
4. Startup file supports configuration wizard.

V2.0.4-2022/06/28

1. Added a demo on how to enable Flash access protection.
2. Added IO toggle demo.
3. Updated some demos, their drive processes, and some notes.

V2.0.3-2022/05/20

1. Modified descriptors of the USB virtual msc iap demo.
2. Added USB composite_vcp_msc demo.
3. Added USB prescaler in the PLL configuration process.
4. Updated some demos, their drive processes, and some notes.

V2.0.2-2022/04/02

1. Added wdt_standby demo.
2. Introduced DSP-related source code, and added cmsis_dsp demo.
3. Updated some demos, their drive processes, and some notes.

V2.0.1-2022/02/11

1. Added the virtual_comport demo in USB.
2. Updated the USB msc iap demo to ensure its full compatibility with different systems.
3. Updated some demos, their drive processes, and some notes.

V2.0.0-2021/12/31

1. Initial release of AT32F425 firmware library.