Release Notes for AT32F403A_407 Firmware Library

V2.1.2-2022/08/16

1. Added IAR V9.3 project demo into template

2. Fixed the problem of printf's failure to output in gcc environment

3. Startup file supports configuration wizard

V2.1.1-2022/07/22

1. Added the GPIO io toggle demo

2. Updated the I2C eeprom demo with additional 16-bit address support

3. Updated some demos, their drive processes, and some notes

V2.1.0-2022/06/09

1. Added the USART RS485 demo

2. Added the USB composite_vcp_msc demo

3. Added the EMAC mqtt customer-side demo

4. Added a demo on how to enable Flash access protection

5. Updated some demos, their drive processes, and some notes

V2.0.9-2022/04/25

1. Modified descriptors of the USB virtual msc iap demo

2. Added the network connection status detection feature to the EMAC-related demo, and updated the local_time variable

3. Updated some demos and notes

V2.0.8-2022/04/02

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

V2.0.7-2022/02/11

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

V2.0.6-2021/12/31

1. Updated wrong parameter definitions in the interrupt priority group

2. Included the serial port initialization and redirection functions of printf into xx_board.c, and removed related contents in demos

3. Updated some demos to support AC6 and –O3 compilation

4. Added composite_audio_hid demo in the USB, and optimized reporting and synchronization mechanism

5. Fixed wrong definitions regarding speed status and duplex mode which occurred when the phy dp83848 is used by AT32F407 EMAC.

V2.0.5-2021/12/17

1. Revised flag clear functions of peripherals in order to avoid inappropriate bit operations

2. Unified pwc_wakeup_pin_enable function interface

3. Fixed the 4-byte alignment problem of USB device

4. Updated the virtual space of virtual_msc_iap demo to 100 MB

5. Fixed the problem of bulk transfer complete of the serial port in the composite_vcp_keyboard demo

6. Updated keyboard-related transmit functions in USB demo

7. Updated timer frequency configuration process for triggering ADC conversion in ADC demo

8. Adjusted XMC peripheral driver structure, and updated the corresponding demo

V2.0.4-2021/11/26

1. Updated some notes and readme

2. Updated the sampling frequency judgement process for configuring the microphone frequency using audio codec

3. Fixed the problem of byte alignment while USB write access to FIFO

V2.0.3-2021/11/25

1. Updated flag_clear functions of some peripheral drivers, and fixed improper operational problem when the w1c is selected

2. Added a process to judge unlock flags after unlocking USD or SLIB

3. Changed the macro definitions of some GPIO pin multiplexed functions

4. Updated notes and description in some documents

V2.0.2-2021/10/27

1. Changed the implementation procedure of mass storage demo in order to optimize CV test

2. Updated usb cdc demo

3. Changed EMAC SMI frequency division to support 240 MHz

V2.0.1-2021/10/21

1. Updated the names of some library functions

2. Updated the time of HEXT startup timeout

3. Updated some USB functions

V2.0.1-2021/10/21

1. Initial release of AT32F403A/407 firmware library