ARM® Cortex®-M0

32-bit Microcontroller

NuMicro® Family
NUC029xEE Series BSP
Revision History

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Revision 3.00.005 (Released 2026-09-09)

1. Fixed ISP_I2C download data flash failed issue.
2. Added software disconnect and reconnect API in USBD Sample code.
3. Updated ISP_SPI sample to add interrupt mask protection for ParseCmd().
4. Added two new macros in pwm.h: PWM_SET_DUTY_COUNT and PWM_SET_PERIOD_COUNT, which are functionally equivalent to PWM_SET_CMR and PWM_SET_CNR, respectively, to improve readability and clarity of the macros.
5. Added a macro to wait for the I2C bus status to be cleared.
6. Added the macro to the sample code to avoid re-entering the interrupt before the register write is complete, which could lead to an incorrect I2C_STATUS0 value of 0xf8.
7. Added read/write byte related functions to the I2C driver.
8. Disabled I2C IRQ until ParseCmd() is completed to prevent ISP from triggering an interrupt and fetching data prematurely.
9. Supported VSCode multi-toolchain projects.
10. Added USBD_HID_Mouse2 sample code.
11. Added Schmitt trigger configuration for I2C pins.
12. Revised ISP_I2C Schmitt trigger configuration.
13. Fixed infinite loop.

Revision 3.00.004 (Released 2024-07-02)

1. Added timeout handler for infinite loop.
2. Used "volatile" with the function pointer to disable compiler optimizations in I2C sample code.
3. Modified UART_RS485_Master/Slave sample code.
4. Enabled LVR in SYS_PowerDown_MinCurrent sample code to prevent power on/off fail.
5. Updated USBD HID keyboard sample code to support LED status.
6. Added SYS_PowerDown_MinCurrent sample code.
7. Updated SPI_Loopback sample code.
8. Updated Windows driver of USBD_Printer_And_HID_Transfer sample code.
9. Called UART FIFO size from uart.h in USBD VCOM sample code.
10. Fixed USBD_MassStorage_CDROM crash on Linux.
11. Added I2C hang up & recover mechanism for I2C Master and Slave sample code.
12. Fixed UART TX FIFO control issue in USBD sample code.

Revision 3.00.003 (Released 2021-01-20)

1. Added to pass USB-IF CV-Chapter 9 & Class test of all USBD Sample code.
2. Added USBD_MassStorage_SDCard sample code.
3. Added SPI_TRIGGER_TX_RX_PDMA API.
4. Added Apache-2.0 license declaration in driver source.
5. Added README.md file.

Revision 3.00.002 (Released 2019-11-12)

1. Added ISP Sample codes to bsp\SampleCode\ISP folder.
2. Supports GNU GCC.
3. Fixed PWM_DisableCaptureInt of PWM driver.

Revision 3.00.001 (Released 2018-07-06)

1. Initial Release.

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