

NuMicro[®] Family Arm[®] Cortex[®]-M0-based Microcontroller

M031 Series CMSIS BSP Revision History

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Revision 3.07.000 (Released 2024-10-16)

- 1. Added I²C error condition process.
- 2. Added .uvprojx project file for Keil5.
- 3. Removed .uvproj file for Keil4.
- 4. Minor changes for sample code.
- 5. Minor bug fix.

Revision 3.06.000 (Released 2023-11-14)

- 1. Added PWM_Brake and ADC_SingleCycleScanMode2 samples.
- 2. Added LED status for USBD samples.
- 3. Fixed USB MSC sample access fail issue.
- 4. Fixed Keil Compiler 6 issue.
- 5. Minor changes for sample code.
- 6. Minor bug fix.

Revision 3.05.000 (Released 2022-03-18)

- 1. BLE supported GCC and IAR toolchain.
- 2. Removed emWin samples and library.
- 3. Minor changes for sample code.
- 4. Minor bug fix.

Revision 3.04.000 (Released 2021-12-28)

- Supported BLE for M031BT/M032BT.
- 2. Added I2C_SMBus_Master and I2C_SMBus_Slave samples.
- 3. Added Sample codes for FreeRTOS V2020.12.
- 4. Added ISP_MSC sample.
- 5. Added Cache invalidation for FMC Write related functions.
- 6. Added new API for TIMER.
- 7. Updated I²C driver to check STOP bit when I²C transmission completed.
- 8. Updated HID samples polling interval to 10.
- 9. Updated samples to avoid infinite loop.
- 10. Fixed the missing UART6/UART7 in UART_Open function.
- 11. Minor changes for sample code.
- 12. Minor bug fix.

Revision 3.03.000 (Released 2020-09-14)

- 1. Added Apache-2.0 license declaration into BSP.
- 2. Added fmc_ap_main.uvproj Keil project in FMC_IAP sample.
- 3. Updated preferences.ini for Eclipse V1.01.016 or later.
- 4. FMC_IAP sample uses hardware reset instead of software reset.
- Fixed HIRC trim setting in USBD_Audio_NAU8822_Headset, USBD_Audio_NAU8822_Microphone, and USBD_Audio_NAU8822_Speaker samples.
- 6. Fixed I²C wakeup done flag checking fail issue.
- 7. Minor changes for sample code.
- 8. Minor bug fix.

Revision 3.02.000 (Released 2019-10-4)



- 1. Supported GPIOE, GPIOG, GPIOH, UART3/4/5/6/7, USCI-1, BPWM, QSPI and RTC for new M031 part numbers.
- 2. Removed I2C_Master_PDMA, I2C_PDMA, I2C_Slave_PDMA and USBD_Audio_NAU8822 samples.
- 3. Added ISP related samples.
- 4. Added BPWM, QSPI and RTC related samples.
- 5. Added emWin sample codes and library.
- 6. Updated I2C_PDMA_TRX, USCI_SPI_PDMA_LoopTest, USCI_I2C_Loopback_10bit, USCI_I2C_Loopback, FMC_CRC32, FMC_ExeInSRAM, FMC_MultiBoot, FMC_MultiWordProgram, FMC_ReadAllOne, USBD_Audio_NAU8822_HeadSet, USBD_Audio_NAU8822_Microphone and USBD_Audio_NAU8822_Speaker samples.
- 7. Minor changes for sample code.
- 8. Minor bug fix.

Revision 3.01.000 (Released 2019-04-12)

- 1. Added USBD_Audio_NAU8822 sample for UAC class.
- 2. Removed I2C_Double_Buffer_Slave sample.
- 3. Updated default stack size from 1KB to 512B.
- 4. Updated definition from SYS_xx_ADC_xx to SYS_xx_ADC0_xx.
- 5. Updated samples for M031EB0AE, M031FB0AE and M031TB0AE.
- 6. Minor changes for sample code.
- 7. Minor bug fix.

Revision 3.00.000 (Released 2018-06-29)

1. Preliminary release version.



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