ARM® Cortex®-M23

32-bit Microcontroller

NuMicro® Family
M261 Series BSP
Revision History

The information described in this document is the exclusive intellectual property of Nuvoton Technology Corporation and shall not be reproduced without permission from Nuvoton.

Nuvoton is providing this document only for reference purposes of NuMicro microcontroller based system design. Nuvoton assumes no responsibility for errors or omissions.

All data and specifications are subject to change without notice.

For additional information or questions, please contact: Nuvoton Technology Corporation.

www.nuvoton.com

Revision 3.00.006 (Released 2026-06-22)

1. Fixed FMC Multi-Word Program.
2. Fixed SYS_SRAMPowerMode sample code VSCode project.
3. Added software disconnect and reconnect API in USBD.
4. Updated ISP_SPI sample to add interrupt mask protection for ParseCmd.
5. Updated UsbHostLib to resolve MSC disconnect issue.
6. Fixed PDMA setting issue in I2S sample codes.
7. Added VSCode multi-toolchain project.
8. Added a check for the STOP bit when I2C transmission is complete.
9. Sent NAK instead of 0 to fix host not going to sleep issue in USBD_HID_RemoteWakeup.
10. Added a macro to wait for the I2C bus status to be cleared.
11. Fixed the slave addressing header for I2C_Master in 10-bit mode.
12. Added Slave TX underrun handling to QSPI_Slave3Wire sample code.
13. Replaced SPI Flash ID from 0x90 to 0x9F.
14. Added USBD_VCOM_MultiPort sample code.
15. Added CAN_BasicMode_SilentMode and CAN_NormalMode_SilentMode sample code.
16. Added slew rate control for QSPI/SPI sample codes.
17. Added workaround for RTC is reset after DPD wake-up issue.
18. Updated SYS_PowerDown_MinCurrent sample code and CLK_EnablePLL.
19. Fixed wrong TIMER0_Init settng in EADC_Timer_Trigger sample code.
20. Updated USBD HID keyboard sample code to support LED status.
21. Added ISP_UART sample code GCC project.

Revision 3.00.005 (Released 2023-08-29)

1. Fixed SecureBootDemo sample code wait AES time-out handler.
2. Fixed SYS_PowerDown_MinCurrent sample code comment spelling error.
3. Added USCI_UART_TxRxFunction debug port description.
4. Modified I2C_Master sample code to support 10bit mode by compiler option.
5. Changed the verification conditions for read and write operations in I2C_Master to check each address group.
6. Fixed comments and remove useless code.
7. Modified VendorName of N_DFU.inf.
8. Added FreeRTOS TicklessIdle sample code.
9. Added SYS_PowerDown_MinCurrent sample code.
10. Updated SPI_Loopback sample code.
11. Modified SYS_UnLockReg() time-out handler.
12. Updated USBD_HID_Touch project file.
13. Called UART FIFO size from uart.h in USBD VCOM sample code.
14. Removed printf for PowerDown in USBD sample code.

Revision 3.00.004 (Released 2022-08-24)

1. Fixed return in main() cause hardfault issue.
2. Updated ThirdParty/FreeRTOS to v10.4.6.
3. Added timeout handler for infinite loop.
4. Fixed USBD_Mass_Storage_CDROM crash on Linux.
5. Added I2C hang up and recover mechanism for I2C Master and Slave sample code.
6. Fixed UART TX FIFO control issue in USBD_VCOM sample code.

Revision 3.00.003 (Released 2021-01-18)

1. Fixed USPI_SET_SS_HIGH macro.
2. Extend the firmware size limitation for calculating SHA value from SD card of SecureOTADemo sample code.
3. Added Apache-2.0 license declaration in driver source.
4. Added FreeRTOS IAR sample code.
5. Modified to pass USB-IF CV-Chapter 9 & Class test of all USBD Sample code.
6. Added xxx_TRIGGER_TX_RX_PDMA and xxx_DISABLE_TX_RX_PDMA API for QSPI/SPI/USPI driver.
7. Fixed page program function issue of SPI Flash related sample code.
8. Fixed data access fail issue of USBD_Mass_Storage_CDROM sample code.
9. Added Android App source code and printed WIFI connection information in SecureOTADemo sample code.

Revision 3.00.002 (Released 2019-11-07)

1. Added ISP Sample codes to bsp\SampleCode\ISP folder.
2. Added Mass Storage sample code to support SDCard.
3. Added UART_TxRxFunction sample code:
   1. Used Rx empty flag to receive data for Rx trigger level.
   2. Added RLS and Buffer error handle.
4. Fixed USBD toggle, I2S set FIFO and USBH library error.
5. Added ENABLE_XOM0_REGION definition to enable XOM in NuBL2 and updated FwSign.exe.
6. Released new OTA_Update_App.apk to allow updating only one firmware.
7. Added PCLKDIV constant definitions in CLK driver.
8. Added emWin to support M261 NuMaker-M263KI V1.1.
9. Fixed IAR project for FMC_ExeInSRAM, FMC_MultiWordProgram, FMC_IAP, FMC_DualBankFwUpdate, FMC_ExeInSRAM, FMC_MultiWordProgram and XOM.
10. Added secureOTADemo sample code.

Revision 3.00.001 (Released 2019-04-19)

1. Initial Release.

Important Notice

Nuvoton Products are neither intended nor warranted for usage in systems or equipment, any malfunction or failure of which may cause loss of human life, bodily injury or severe property damage. Such applications are deemed, "Insecure Usage".

Insecure usage includes, but is not limited to: equipment for surgical implementation, atomic energy control instruments, airplane or spaceship instruments, the control or operation of dynamic, brake or safety systems designed for vehicular use, traffic signal instruments, all types of safety devices, and other applications intended to support or sustain life.

All Insecure Usage shall be made at customer's risk, and in the event that third parties lay claims to Nuvoton as a result of customer's Insecure Usage, customer shall indemnify the damages and liabilities thus incurred by Nuvoton.

Please note that all data and specifications are subject to change without notice.
All the trademarks of products and companies mentioned in this datasheet belong to their respective owners.