

## **ARM® Cortex®-M23 32-bit Microcontroller**

# **NuMicro® Family M2354 Series BSP Revision History**

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**Revision 3.00.003** (Released 2022-03-07)

1. Fix UART TX FIFO control issue in USB\_D\_VCOM sample code.
2. Fix debug information option of IAR compiler of TrustZone template sample code.
3. I2C pins enable schmitt trigger and add I2C hangup/recover flow in I2C and USCI\_I2C sample code.
4. Update auto trim to use HW boundary function in USB\_D sample code.
5. Update CRYPTO\_AES\_GCM sample code to support DMA cascade mode and fix Tag calculation.
6. Fix display flicker issue in lcdlib.c.
7. Add timer init code in CRYPTO\_ECC\_Demo sample code.
8. Add XOM protect mechanism to prevent illegal region configuration in fmc.h and fmc.c.
9. Add BME680 sensor data displayed on LCD at NuMakerIoT board.
10. Update MFP configure of SDH\_FATFS sample code by Numaker board.
11. Fix USB\_D\_Mass\_Storage\_CDROM crash on Linux.
12. Modify USB\_D\_HID polling interval - bInterval to 10.
13. Fix an external hub driver bug in UsbHostLib/src\_core/hub.c
14. Add prebuild binary of mbedOS6 for AWS IoT Cloud connection.
15. Add WiFi, LoRa\_Master/Slave sample code for NuMakerIoT board.
16. Add I/O control in SYS\_DPD/SPDMode\_Wakeup sample code to prevent I/O floating.
17. Add timeout handler for infinite loop.
18. Modify LCD StdDriver, LCDLib and BME680\_and\_LCD sample code to meet LCDView tool.

**Revision 3.00.002** (Released 2020-12-10)

1. Fix data access fail issue in USB\_D\_Mass\_Storage\_CDROM sample code.
2. Fix CLK\_SetModuleClock function parameter description for LCDCP\_MOSupport segment LCD driver, demo.
3. Revise LCD sample codes for VLCD source from internal charge pump.
4. Add emWin v5.48k.3 lib and samples.
5. Add UART and USCI(UART) deglitch function bit field definition.
6. Add Crypto AES CCM and GCM sample code.
7. Remove PCLKDIV setting to fix QSPI, SPI, SPII2S and USCI\_SPI sample code.

**Revision 3.00.001** (Released 2020-09-22)

1. Initial Release.

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