

**ARM® Cortex®-M**  
**32-bit Microcontroller**

**NuMicro® Family**  
**M031 Series CMSIS 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](http://www.nuvoton.com)

---

**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\_ExecInSRAM, 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. Primary release version.

### **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.*