

**ARM[®] Cortex[®]-M4
32-bit Microcontroller**

**NUC472/442 Series CMSIS BSP
Revision History**

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Revision 3.01.001 (Released 2014-10-09)

1. Removed NVIC_EnableIRQ() function call in I2S_Open() and SD_Open().
2. Removed PI definition and add GPI definition.
3. Removed uCOS-II and uCOS-III samples.
4. Renamed CAN_NOTMAL_MODE to CAN_NORMAL_MODE.
5. Renamed UBSD_*() macros to USB*_*().
6. Renamed USBH registers and related bit name.
7. Renamed PD13MFP_SC3_SS0 to PD13MFP_SPI1_SS0.
8. Replaced the USBH_ProcessHubEvents() and usb_hub_events() return type from void to int.
9. Updated original USBH HID library with Nuvoton HID library with less footprint.
10. Updated bit filed definition of register VREFCTL.
11. Enable branch buffer starting from version E MCU.
12. Added RTX support.
13. Added EADC driver.
14. Added Cortex-M4 BitBand and MPU sample codes.
15. Added ADC_PDMA, EADC_ADINT_Trigger, EADC_Compare, EADC_STADC_Trigger, EADC_SWTRG_Trigger, EADC_Timer_Trigger, I2S_NAU8822_PDMA, ISP_Updater, USBD_Bulk, USBD_HID_Mouse_Vendor, USBD_HID_MouseKeyboard, USBD_HID_Transfer, USBD_VCOM_SerialEmulator, USBD_VENDOR_LBK, USBH_VENDOR_LBK samples.

Revision 3.01.000 (Released 2014-05-23)

1. Rename registers and bit fields.
2. Added Analog comparator (ACMP) driver.
3. Added I2S, ACMP, and USB sample codes.
4. Minor bug fix.

Revision 3.00.001 (Released 2014-04-25)

1. Improved PWM driver performance.
2. Renamed EPWM register PWM0/2/4 to PWM_CH0/2/4.
3. Updated IAR project files to support Nu-Link IAR driver v6287 or above.
4. Removed learning board directory NUC472-LB/.
5. Added wave player and hard fault sample.
6. Minor bug fix.

Revision 3.00.000 (Released 2014-03-05)

1. Moved Smartcard library one directory level up to Library\SmartcardLib.
2. Added OTG dual role sample code and Learning Board G-sensor sample code.
3. Added FreeRTOS LwIP IAR project file.
4. Renamed RTC_GetDatAndTime() to RTC_GetDateAndTime().
5. Changed Major number from 1 to 3.
6. Minor bug fix.

Revision 1.00.000 (Released 2014-01-14)

1. Added CAN, SD, SC, SCUART driver and samples.
2. Added smartcard 7816-3 library
3. Added NUC472 Tiny Board sample.
4. Renamed I2C_GetClockBusFreq() to I2C_GetBusClockFreq().
5. Renamed I2C_SetClockBusFreq() to I2C_SetBusClockFreq().
6. Renamed I2C_SetSlaveMask() to I2C_SetSlaveAddrMask().
7. Minor bug fix.

Revision 0.10.000 (Released 2013-12-04)

1. Added I²S and PDMA drivers.
2. Added Learning Board and Standard Driver samples.
3. Added FreeRTOS lwIP sample.

Revision 0.09.000 (Released 2013-11-11)

1. Added CAP, EBI, I²C, PWM, SPI, USB, and USBH drivers and samples.
2. Added uCOS-II and uCOS-III samples.
3. Added FreeRTOS source code and sample.

Revision 0.08.000 (Released 2013-10-25)

1. Preliminary release.

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