

Arm® Cortex®-M23
32-bit Microcontroller

M253 Series CMSIS BSP
Revision History

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Revision 3.00.007 (Released 2023-08-07)

- Library
 - LDROM.icf and LDROM.sct: Fixed LDROM address.
- Standard driver
 - CANFD: Removed unused workarounds of wrong register value and wrong transmission.
- Sample code
 - CANFD_CAN_MonitorMode, CANFD_CANFD_MonitorMode: Added.
 - ISP samples: Fixed LDROM download failure in IAR and KEIL.
 - ISP_DFU: Updated Windows driver with Nuvoton vendor name.
 - USB samples: Removed EP1 stall while setup error occurred.

Revision 3.00.006 (Released 2023-02-06)

- Sample code
 - SYS_PowerDown_MinCurrent: Added.
 - USB samples: Avoided wakeup failure.

Revision 3.00.005 (Released 2022-07-13)

- Standard driver
 - retarget.c: Fixed print issue with IAR EWARM v9.20.
 - CANFD: Fixed potential issues of wrong register value and wrong transmission.
 - UART: UART_RX_IDEL replaced by UART_RX_IDLE.
- Sample code
 - CANFD_CANFD_Loopback, CANFD_CANFD_TxRxINT, CANFD_CAN_Loopback, and CANFD_CAN_TxRxINT: Rejected non-matched standard ID and extended ID filter.
 - FreeRTOS Blinky sample: Added.
 - I2C_Loopback_10bit, I2C_Master_10bit, and I2C_Slave_10bit: Added.
 - I2C samples: Improved error handling.
 - ISP_DFU, ISP_HID, and ISP_MSC: Enabled USB trim function.
 - ISP_SPI: Added GCC project.
 - ISP samples
 - Added IAR projects.
 - Added scatter file to check image size.
 - Enabled function section linking and image size optimization in KEIL projects.
 - UART_PDMA: Fixed compiling issue of polling method.

- ThirdParty
 - FreeRTOS: Added.

Revision 3.00.004 (Released 2022-01-24)

- Standard driver
 - Improved infinite loop prevention with timeout counter and error code.
 - CANFD: CANFD_TransmitTxMsg changed return type.
 - RTC: RTC_Open added return value.
 - TIMER: TIMER_Delay and TIMER_ResetCounter added return value.
- Sample code
 - EADC_Timer_Trigger: Fixed wrong timer period.
 - I2C and USCI_I2C samples: Enabled schmitt trigger of I2C pins.
 - I2C samples: Removed redundant code.
 - ISP_I2C, ISP_RS485, and ISP_UART samples: Added GCC project.
 - ISP_MSC: Added.
 - SPI_HalfDuplex_Master and SPI_HalfDuplex_Slave: Replaced by SPI_HalfDuplex.
 - SPI_PDMA_LoopTest: QSPI0 replaced by USPI0.
 - USB_D_HID samples: Unified INT_IN interval.
 - USB_D_Mass_Storage_CDROM: Fixed Linux and Mac compatibility issue.

Revision 3.00.003 (Released 2021-05-20)

- system_M253.h: __HXT and __LXT added redefinition check.
- Standard driver
 - TIMER: TIMER_CAPTURE_FROM_ACMP0, TIMER_CAPTURE_FROM_ACMP1, TIMER_CAPTURE_FROM_HXT, TIMER_CAPTURE_FROM_LXT, TIMER_CAPTURE_FROM_HIRC, TIMER_CAPTURE_FROM_LIRC, and TIMER_CAPTURE_FROM_MIRC added.
- Sample code
 - TIMER_FreeCountingMode: Saved the first captured data.
 - UART_Wakeup: Provided more wake-up methods.

Revision 3.00.002 (Released 2021-02-24)

- MCAN renamed to CANFD.
- Sample code
 - ISP_CAN, SPI_SlaveFIFO_ModeINT, and USCI_SPI_SlaveModeINT: Added.
 - ISP_HID, ISP_I2C, ISP_RS485, and ISP_UART: Enabled GPIO and SysTick

clocks.

- USB_D_VCOM samples: Fixed potential UART Tx FIFO overflow issue.
- USB_D_VCOM_DaulPort, USB_D_VCOM_MultiPort, and USB_D_VCOM_MultiPort_CMD: Fixed power-down blocked issue and wrong baud rate issue.

Revision 3.00.001 (Released 2020-12-25)

- Initial release.

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