

Arm[®] Cortex[®]-M23
32-bit Microcontroller

M251/M252 Series CMSIS BSP
Revision History

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Revision 3.00.004 (Released 2019-12-31)

- Removed CRPTO support.
- Standard driver
 - retarget.c
 1. `_write`, `SendChar_ToUART`
 - Fixed '\r' issue.
 - CRC driver
 1. `CRC_SET_WDATA_LEN`
 - New API.
 - FMC driver
 1. `FMC_Write128`
 - Noted to run in SRAM instead of inline function.
 2. `FMC_WriteConfig`
 - Fixed return value.
 - SYS driver
 1. `SYS_PLCTL_PLSEL_PL2`
 - Replaced with `SYS_PLCTL_PLSEL_PL3`.
 - TIMER_PWM driver
 1. `TPWM_ConfigOutputFreqAndDuty`
 - Fixed wrong configuration for 1 Hz.
- Sample code
 - `FMC_MultiWordProgram`
 1. Used FMC driver API.
 - `I2C_Wakeup_Slave`
 1. Enhanced wakeup robustness.
 - `ISP_DFU`
 1. New ISP sample code with USB DFU class.
 - `UART_LIN`, `UART_SingleWire`
 1. Fixed '\r' issue.
 - All USB D samples
 1. Enhanced USB compatability.

Revision 3.00.003 (Released 2019-8-30)

- M251.h
 - Included `core_cm23.h` instead of `core_armv8mbl.h`.
- Peripheral header

- clk_reg.h, rtc_reg.h
 1. Revised based on TRM.
- Standard driver
 - I2C driver
 1. I2C_SetSlaveAddr, I2C_SetSlaveAddrMask
 - Added support of 10-bit slave address.
 - Added error handling for new transfer.
 - TIMER driver
 1. TIMER_GetModuleClock
 - Fixed correct PCLK.
 2. TIMER_Open
 - Fixed return value.
 - TIMER_PWM driver
 1. TPWM_ClearWakeupFlag, TPWM_DisableTrigger, TPWM_DisableWakeup, TPWM_EnableTrigger, TPWM_EnableWakeup, TPWM_GetWakeupFlag, TPWM_CLEAR_TRG_DAC_STATUS, TPWM_CLEAR_TRG_PDMA_STATUS, TPWM_GET_TRG_DAC_STATUS, TPWM_GET_TRG_PDMA_STATUS
 - Added.
 2. TPWM_OUTPUT_TOGGLE, TPWM_OUTPUT_NOTHING, TPWM_OUTPUT_LOW, TPWM_OUTPUT_HIGH, TPWM_CLKSRC_HXT, TPWM_CLKSRC_LXT, TPWM_CLKSRC_PCLK, TPWM_CLKSRC_TX, TPWM_CLKSRC_LIRC, TPWM_CLKSRC_HIRC
 - Removed.
 - USCI_SPI driver
 1. USPI_SET_SS_HIGH
 - Fixed implementation.
- Library
 - Smartcard library
 1. SCLIB_CheckCDEvent_ByVar
 - New API to support software card detection.
- Sample code
 - EADC_BandGap
 1. Show voltage result and modify extern sample time for band-gap.
 - FMC_ExecInSRAM
 1. Added GCC project.
 - I2C_Master_PDMA, I2C_PDMA, I2C_Slave_PDMA

- 1. Deleted. Replaced with I2C_PDMA_TRX.
- I2C_PDMA_TRX
 - 1. New sample code for I2C transfer with PDMA.
- ISP samples
 - 1. New sample codes with ISP Tool.
- QSPI_Slave3Wire, SPI_HalfDuplex
 - 1. New sample codes.
- SC_ReadATR, SC_ReadSimPhoneBook
 - 1. Added support of software card detection.
- UART_TxRx_Function
 - 1. Fixed data lost issue.
- USCI_SPI_Loopback, USCI_SPI_MasterMode, USCI_SPI_SlaveMode
 - 1. Added support of using GPIO pin instead of SS pin.
- All USB_D samples
 - 1. Fixed potential issue.

Revision 3.00.002 (Released 2019-2-22)

- system_M251.c
 - Set flash access cycle to 0x03.
- Standard driver
 - CLK driver
 - 1. CLK_SET_PCLK_DIVIDER
 - Removed.
- Sample code
 - All samples
 - 1. Used other clock source instead of HXT.
 - SYS_TrimHIRC
 - 1. Fixed auto trim disable.
 - USB_D_Audio_Codec
 - 1. Cleared buffer before play / record.

Revision 3.00.001 (Released 2018-12-25)

- Initial release.

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