

ARM® Cortex®-M0 32-bit Microcontroller

NuMicro[®] Family M0518 Series BSP Revision History

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Revision 3.00.006 (Released 2024-06-19)

- Used "volatile" with the function pointer to disable compiler optimizations in I2C sample code.
- Enabled LVR in SYS_PowerDown_MinCurrent sample code to prevent power on/off fail
- 3. Split FMC IAP into FMC IAP and FMC IAP LD.
- 4. Added SYS PowerDown MinCurrent sample code.
- 5. Modified SYS_UnLockReg() time-out handler.
- 6. Added timeout handler for infinite loop.
- 7. Added I2C hang up & recover mechanism for I2C Master and Slave sample code.

Revision 3.00.005 (Released 2020-09-24)

- 1. Append \r char before sending \n when use printf.
- 2. Fixed warnings of ADC driver.
- 3. Added Apache-2.0 license declaration in driver source.
- 4. Added README.md file.
- 5. Fix build error of FMC_IAP IAR sample code.
- 6. Fix build warning of GCC Project.

Revision 3.00.004 (Released 2019-11-12)

- 1. Added ISP Sample codes to bsp\SampleCode\ISP folder.
- 2. Supports GNU GCC.
- 3. Fixed CLK_SetHCLK() bug of CLK driver.
- 4. Fixed CLK EnablePLL() wrong PLL default setting value of CLK driver

Revision 3.00.003 (Released 2017-10-05)

- 1. Fix clear Time-out flag method bug in I2C_ClearTimeoutFlag() of I2C driver.
- 2. Fix bug of PWM_ConfigOutputChannel() and PWM_ConfigCaptureChannel() for counter type setting error when u32ChannelNum is 1,3,5.
- 3. Fix bug for revised PWM_Stop() implementation
- 4. Fix bug for return value error of PWM_ConfigOutputChannel()
- 5. Add ADC MeasureAVDD sample code
- 6. Add new function to control systick and select systick clock source, CLK_EnableSysTick() and CLK_DisableSysTick()
- 7. Add CLK_SysTickLongDelay() for long delay
- 8. Fix UART SelectLINMode() clear enable bit setting bug
- 9. Fix PLL clock source selection bug in CLK SetCoreClock()
- 10. Fix clear Receive Line Status interrupt flag bug in UART ClearIntFlag().

Revision 3.00.002 (Released 2014-12-23)

- 1. Fix PWM driver bug for output low when duty is 100%
- 2. Fix BPWM driver bug for output low when duty is 100%
- 3. Fix CLK driver bug in CLK SetCoreClock():
- 4. Fix CLK driver constant definitions error of (B)PWM0/1_MODULE clock source selection.
- 5. Fix GPIO_ENABLE_DOUT_MASK() and GPIO_DISABLE_DOUT_MASK() bug of GPIO driver.
- 6. Fix PWM driver bug of PWM_MASK_OUTPUT() to remove redundant parenthesis.
- 7. Fix BPWM driver bug of BPWM_MASK_OUTPUT() to remove redundant parenthesis



- 8. Fix UART driver clear flag bug in UART_ClearIntFlag()
- 9. Fix I2C driver module reset bug of I2C_Close().
- 10. Fix clear RS-485 address byte detection flag bug in UART_RS485_CLEAR_ADDR_FLAG() of UART driver.
- 11. Fix clear RS-485 address byte detection flag clear bug in RS485_HANDLE() of UART RS485 Slave sample code.
- 12. Fix NVIC_EnableIRQ() to NVIC_DisableIRQ() after CHIP wake-up in I2C Wakeup Slave sample code
- 13. Fix UART RS485 RTS active level to high level active in RS485_9bitModeMaster() of UART RS485 Sample code.
- Add PWM_EnableLoadMode() and PWM_DisableLoadMode() functions to PWM driver
- 15. Add PWM SetBrakePinSource() function to PWM driver
- 16. Add CLK_GetPCLKFreq() function to CLK driver
- 17. Add new macro PWM_SET_DEADZONE_CLK_SRC() to PWM driver
- 18. Add nonblocking printf implementation and use predefine compiler option to enable/disable it.

Revision 3.00.002 (Released 2014-07-18)

- 1. Fixed constant definitions of Timer 2 and Timer 3 in clk.h
- 2. Fixed SYS Init() GPIO initial bug of \SampleCode\StdDriver\ACMP.

Revision 3.00.001 (Released 2014-06-12)

1. First Release



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