

ARM® Cortex®-M0
32-bit Microcontroller

NuMicro® Family
NUC100 Series BSP
Revision History

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Revision 3.00.007 (Released 2024-07-29)

1. Used "volatile" with the function pointer to disable compiler optimizations in I2C sample code.
2. Enabled LVR in SYS_PowerDown_MinCurrent sample code to prevent power on/off fail.
3. Updated USBD HID keyboard sample code to support LED status.
4. Added SYS_PowerDown_MinCurrent sample code.
5. Updated SPI_Loopback sample code.
6. Called UART FIFO size from uart.h in USBD VCOM sample code.
7. Modified HID polling interval - bInterval to 10.
8. Added I2C hang up & recover mechanism for I2C Master and Slave sample code.
9. Fixed UART TX FIFO control issue in USBD sample code.

Revision 3.00.006 (Released 2021-01-20)

1. Modified to pass USB-IF CV-Chapter 9 & Class test of all USBD Sample code.
2. Added SPI_TRIGGER_TX_RX_PDMA API.
3. Added Apache-2.0 license declaration in driver source.
4. Added README.md file.

Revision 3.00.005 (Released 2019-11-11)

1. Added ISP Sample codes to bsp\SampleCode\ISP folder.
2. Supports GNU GCC.
3. Added Mass Storage sample code to support SD Card.
4. Fixed PWM_DisableCaptureInt of PWM driver.
5. Fixed CLK_SetHCLK() bug of CLK driver.
6. Fixed CLK_EnablePLL() wrong PLL default setting value of CLK driver.

Revision 3.00.004 (Released 2017-11-28)

1. Fixed USBD driver issue with zero packet.
2. Modified MFP setting style.

Revision 3.00.003 (Released 2017-10-24)

1. Added CLK_SysTickLongDelay() for long delay.
2. Fixed PLL clock source selection bug in CLK_SetCoreClock().
3. Fixed UART_SelectLINMode() clear enable bit setting bug.
4. Fixed a bug of u32RptDescLen calculation in USBD_GetDescriptor().
5. Fixed clear Receive Line Status interrupt flag bug in UART_ClearIntFlag().
6. Fixed wrong SC1 and SC2 clock source select shift position in MODULE constant definitions.
7. Removed some combinations of I2C control bit settings. To avoid STOP and START write to control bit at the same time.
8. Modified to disable debug message when enabling semihost without NuLink connected.
9. Revised I2C_START(). When set STA bit, the SI doesn't need set at the same time.
10. Added new function to control SysTick and select SysTick clock source, CLK_EnableSysTick() and CLK_DisableSysTick().

11. Added constant define "CLK_CLKSEL0_STCLK_S_HCLK" in CLKSEL0 constant definitions for CLK_EnableSysTick()
12. Added ADC_MeasureVADD sample code.

Revision 3.00.002 (Released 2015-05-12)

1. Fixed SC_SET_STOP_BIT_LEN define error in SC Driver.
2. Fixed all IAR samples to set entry point from __iar_program_start to Reset_Handler.
3. Fixed all samples that run faster than 50MHz. (NUC100 series only support up to 50MHz).
4. Fixed UART1->IRCR setting bug in IrDA_FunctionTxTest().
5. Fixed Flush FIFO end test message print bug in the end of RS485_9bitModeSlave().
6. Fixed the wrong shift position for HCLK divider in main() of SYS sample code.
7. Fixed PLLCON_SETTING constant define from SYSCCLK_PLLCON_50MHz_XTAL to CLK_PLLCON_50MHz_HXT.
8. Fixed bug on CLKO multi-function pin configuration in SYS_Init() of same samples.
9. Fixed UA_LIN_CTL[4] bit field name is "MUTE_EN" not "WAKE_EN" in UART LIN_CTL Bit Field Definitions.
10. Fixed CLK_SetCoreClock() core lock range from "25~50MHz" to "25~72MHz".
11. Fixed CLK_SysTickDelay() bug, that COUNTFLAG(SysTick_CTRL[16]) may not be cleared after write SysTick_VAL.
12. Fixed typo in UA_LIN_CTL constants definitions of UART driver, it is "UART_LIN_CTL_LIN_BKDET_EN" not "UART_LIN_CTL_LIN_BKDET_ENN".
13. Fixed UA_LIN_CTL[4] bit field name of UART driver. It is "MUTE_EN" not "WAKE_EN" in UA_LIN_CTL constants definitions.
14. Fixed API declare name from I2C_SetClockBusFreq() to I2C_SetBusClockFreq() in I2C driver.
15. Fixed SYS_IS_SYSTEM_RST() bug in SYS driver, it is "SYS_RSTSRC_RSTS_SYS_Msk" not "SYS_RSTSRC_RSTS_MCU_Msk".
16. Fixed typo of PD14 Multi-Function constant definitions.
17. Fixed clear Time-out flag method bug in I2C_ClearTimeoutFlag() of I2C driver.
18. Fixed PDMA_IS_CH_BUSY() definition bug in PDMA driver.
19. Removed unused PWRCON, FREQ_72MHZ constant definitions from clock driver.
20. Removed unused constant define "RXBUFSIZE".
21. Added SPI_SET_SS_LEVEL() macro definition. This macro allows user to set both SPI_SS pins.
22. Added a lack macro, SYS_IS_LVR_RST() to SYS driver.
23. Added UART FIFO size constants definitions to UART driver.
24. Added CLK_PLLCON_25MHz_HXT, CLK_PLLCON_25MHz_HIRC, CLK_PLLCON_24MHz_HXT, and CLK_PLLCON_24MHz_HIRC constant definitions to CLK driver.
25. Added FMC_MultiBoot_SwReset sample code to show how to boot to different AP.
26. Modified time-out counter to a fix value and not to use SystemCoreClockUpdate() in CLK_WaitClockReady() to improve compatibility.
27. Revised the following four macro definitions to avoid affecting another SPI_SS pin, SPI_SET_SS0_HIGH(), SPI_SET_SS1_HIGH(), SPI_SET_SS0_LOW() and SPI_SET_SS1_LOW().

Revision 3.00.001 (Released 2014-11-27)

1. First release.

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