

**ARM[®] Cortex[®]-M0
32-bit Microcontroller****NuMicro[®] Family
NANO100BN Series CMSIS BSP
Revision History**

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Revision 3.02.000 (Released 2015-08-07)

1. Removed FMC driver's FMC_SetBootSource(), FMC_DisableAPUpdate(), FMC_DisableConfigUpdate(), FMC_DisableLDUpdate(), FMC_EnableAPUpdate(), FMC_EnableConfigUpdate(), FMC_EnableLDUpdate() in fmc.h, because there exist functionally identical macros.
2. Removed SYS_IRCTRIMCTL_SEL_MASK, SYS_IRCTRIMCTL_LOOP_MASK and SYS_IRCTRIMCTL_RETRY_COUNT in sys.h.
3. Removed SPI_ENABLE_DUAL_MODE() in spi.h.
4. Modified SPI_ENABLE_DUAL_INPUT_MODE() and SPI_ENABLE_DUAL_OUTPUT_MODE() to enable dual I/O with direction.
5. Modified USB driver to pass USB Command Verify test in usbd.c and usbd.h.
6. Modified UART_SelectIrDAMode() to reload UART clock before calculating baudrate, in uart.c.
7. Modified SD card clock speed from 24 MHz to 5 MHz to make SPI operations stable in SDCard.c.
8. Modified MMC_FLASH_Init() to retry SD CMD0 command until success in SDCard.c.
9. Modified TIMER_Open() to not start timer in timer.c.
10. Updated TIMER_Open() and TIMER_Delay() to support extreme high clock input, in timer.c.
11. Renamed sample CRC to CRC_CCITT in StdDriver.
12. Renamed sample GPIO to GPIO_IOTest in StdDriver.
13. Renamed sample PDMA to PDMA_Memory in StdDriver.
14. Renamed sample SYS to SYS_Control in StdDriver.
15. Renamed SYS_Int_xxx_Msk to SYS_xxx_Msk in sys.h.
16. Renamed GP_DBNCECON_PUEN_* to GP_DBNCECON_DBCLKSEL_* in Nano100Series.h.
17. Renamed SYS_IRCTRIMINT_32KERR_ENNT to SYS_IRCTRIMINT_32KERR_INT in sys.h.
18. Fixed the bug that RTC_AER enable flow may be interrupted by interrupt service routine in rtc.c.
19. Fixed the bug that PWM_ENABLE_OUTPUT_INVERTER() does not clear register field before writing input parameter to it in pwm.h.
20. Fixed the bug that TIMER_Delay() sets prescale to wrong register in timer.c.
21. Fixed SCUART_Open() and SCUART_SetLineConfig() baudrate calculation prescale setting error in scuart.c.
22. Fixed bugs of SPI_EnableAutoSS () and SPI_SetBusClock () in spi.c, and cleared bit mask of register field before writing input parameter to it.
23. Fixed the CLK_SysTickDelay() bug that continuously calling CLK_SysTickDelay() may imply an incorrect delay time by clearing control register on each call in clk.c.
24. Fixed implementation errors of CLK_PLLCTL_FB_DV_Msk and CLK_APBCLK_I2C0_EN in Nano100Series.h.
25. Fixed SYS_CLEAR_RST_SOURCE implementation error in sys.h.
26. Fixed CLK_WK_INTSTS_IS implementation error in clk.h.
27. Fixed "GPIO_DISABLE_DOUT_MASK" and "GPIO_ENABLE_DOUT_MASK" implementation errors in gpio.h.
28. Fixed SC_SET_STOP_BIT_LEN implementation error in sc.h.
29. Fixed PDMA_IS_CH_BUSY implementation error in pdma.h.
30. Fixed LCD_CPUMP_DIV128 implementation error in lcd.h.
31. Fixed RTC_CLEAR_TAMPER_FLAG() implementation bug in rtc.h.

32. Fixed ADC_SET_DMOF() implementation error in adc.h.
33. Fixed CRC_SET_SEED ()implementation error in crc.h.
34. Disabled Rx before raising RST high during cold reset in SmartCardLib library.
35. Checked SC_RST and SC_DAT_O pin status during deactivation in SmartCardLib library.
36. Added SYS_PA_H_MFP_PA9_MFP_LCD_S7 macro in sys.h.
37. Added I2C_ClearIntFlag() and I2S_SetFIFO() functions in i2c.c.
38. Added bit definitions of MCLKO (Module Clock CKO) register in clk.h.
39. Added LCD_MODULE and DAC_MODULE macro sets in clk.c.
40. Added CLK_EnableSysTick() and CLK_DisableSysTick() in clk.c.
41. Added macros CLK_PLLCTL_*MHz_HXT and CLK_PLL_*MHz_HIRC for setting PLLCTL value in clk.c.
42. Added SYS_EnableIRCTrim() and SYS_DisableIRCTrim() functions in sys.c, and added macros SYS_GET_IRCTRIM_INT_FLAG() and SYS_CLEAR_IRCTRIM_INT_FLAG() in sys.h.
43. Added UART_SelectLINMode() in uart.c, and added UART_FUNC_SEL_LIN in uart.h.
44. Added a sample USBD_Audio_Speaker_And_HID_Transfer to Nu-LB-NANO130.
45. Added samples SYS_MCLKO, SYS_PLLClockOutput, and SYS_TrimIRC to StdDriver.
46. Added a sample Timer_Wakeup to StdDriver.
47. Added samples USBD_HID_Keyboard, USBD_HID_MouseKeyboard, USBD_HID_Touch, USBD_HID_Transfer_And_Keyboard, USBD_HID_Transfer_And_MSC, USBD_Mass_Storage_CDROM, USBD_Micro_Printer, USBD_Printer_And_HID_Transfer, USBD_VCOM_And_HID_Keyboard, USBD_VCOM_And_HID_Transfer, USBD_VCOM_And_Mass_Storage, USBD_VCOM_DualPort, and USBD_VCOM_SerialEmulator to StdDriver.

Revision 3.01.000 (Released 2014-09-19)

1. Renamed register TESTCLK to MCLKO.
2. Renamed registers PDSSR0 and PDSSR1 to DSSR0 and DSSR1.
3. Renamed UBSD_ENABLE_INT() to USBD_ENABLE_INT().
4. Renamed I2S_Enable_MCLK()/I2S_Disable_MCLK() to I2S_EnableMCLK()/I2S_DisableMCLK().
5. Renamed
CLK_CLKSEL1_PWM1_CH01_S_Msk/CLK_CLKSEL1_PWM1_CH23_S_Msk to
CLK_CLKSEL2_PWM1_CH01_S_Msk/CLK_CLKSEL2_PWM1_CH23_S_Msk.
6. Renamed RTC_RIIR_SNOOPIS_Msk to RTC_RIIR_SNOOPIF_Msk.
7. Renamed PDMA_IER_BLKD_IE_Msk to PDMA_IER_TD_IE_Msk.
8. Modified PWM_EnablePDMA() function prototype, and added one more parameter to select captured edge.
9. Modified PWM capture interrupt flag relative macro definitions to improve performance.
10. Added ADC clock source bit position and mask definition.
11. Added ADC_SET_REF_VOLTAGE() macro and RES/REF definitions.
12. Added DAC driver.
13. Added ADC_Compare, ADC_TimerTrigger, ADC_PDMA, DAC_PDMATrigger, DAC_SoftwareTrigger, DAC_TimerTrigger, GPIO_PowerDown, Hard_Fault_Sample,

PWM_CapturePDMA, SPI_LoopbackPDMA, UART_FlowCtrl, UART_TxRxPDMA, and USBHID_Transfer samples.

Revision 3.00.000 (Released 2014-02-20)

14. Update major version number from 2 to 3.
15. Renamed RTC_GetDatAndTime() to RTC_GetDateAndTime().

Revision 2.00.000 (Released 2014-01-11)

16. Primary release version.

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