

# ARM® Cortex®-M0 32-bit Microcontroller

# NuMicro<sup>®</sup> Family NUC131 Series BSP Revision History

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### Revision 3.00.004 (Released 2019-11-11)

- 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 2017-10-24)

- 1. Fixed CLK\_SysTickDelay() bug.
- 2. Fixed UA\_LIN\_CTL[4] bit field name is "MUTE\_EN" not "WAKE\_EN" in UA\_LIN\_CTL constants definitions.
- 3. Fixed bug of PWM\_MASK\_OUTPUT() that mask function can't be disabled.
- 4. Fixed bug for return value error of PWM\_ConfigOutputChannel()/BPWM\_ConfigOutputChannel().
- 5. Fixed UART\_SelectLINMode() clear enable bit setting bug.
- 6. Fixed PLL clock source selection bug in CLK SetCoreClock()
- 7. Fixed clear Receive Line Status interrupt flag bug in UART\_ClearIntFlag().
- 8. Fixed u32idmask for Standard ID issue in CAN\_SetRxMsgObjAndMsk() function.
- 9. Modified to disable debug message when enabling semihost without NuLink connection.
- 10. Added ADC\_MeasureAVDD sample code
- Added new function to control systick and select systick clock source, CLK\_EnableSysTick() and CLK\_DisableSysTick()
- 12. Added CLK\_SysTickLongDelay() for long delay
- 13. Added CAN\_SetRxMsgObjAndMsk() function declaration.

#### **Revision 3.00.002** (Released 2015-01-16)

- 1. Fixed PWM driver bug for output low when duty is 100%
- 2. Fixed BPWM driver bug for output low when duty is 100%
- 3. Fixed CLK driver bug in CLK\_SetCoreClock():
- 4. Fixed CLK driver constant definitions error of (B)PWM0/1\_MODULE clock source selection.
- 5. Fixed GPIO\_ENABLE\_DOUT\_MASK() and GPIO\_DISABLE\_DOUT\_MASK() bug of GPIO driver.
- 6. Fixed PWM driver bug of PWM MASK OUTPUT() to remove redundant parenthesis.
- 7. Fixed BPWM driver bug of BPWM\_MASK\_OUTPUT() to remove redundant parenthesis.
- 8. Fixed UART driver clear flag bug in UART\_ClearIntFlag().
- 9. Fixed I2C driver module reset bug of I2C\_Close().
- Fixed clear RS-485 address byte detection flag bug in UART\_RS485\_CLEAR\_ADDR\_FLAG() of UART driver.
- 11. Fixed SYS\_IS\_SYSTEM\_RST() bug, it is "SYS\_RSTSRC\_RSTS\_SYS\_Msk" but "SYS\_RSTSRC\_RSTS\_MCU\_Msk".
- 12. Fixed clear RS-485 address byte detection flag clear bug in RS485\_HANDLE() of UART\_RS485\_Slave sample code.
- 13. Fixed UART RS485 RTS active level to high level active in RS485\_9bitModeMaster() of UART RS485 Sample code.
- 14. Fixed NVIC\_EnableIRQ() to NVIC\_DisableIRQ() after CHIP wake-up in I2C\_Wakeup\_Slave sample code
- Added PWM\_EnableLoadMode() and PWM\_DisableLoadMode() functions to PWM driver



- 16. Added PWM\_SetBrakePinSource() function to PWM driver
- 17. Added CLK\_GetPCLKFreq() function to CLK driver
- 18. Added new macro PWM\_SET\_DEADZONE\_CLK\_SRC() to PWM driver
- 19. Added new macro SYS\_IS\_LVR\_RST() to SYS driver.
- 20. Added non-blocking printf implementation and use predefine compiler option to enable/disable it.

# **Revision 3.00.001** (Released 2014-06-12)

1. First Release



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