

Release Notes for SPD1148 Standard Peripherals Library Drivers

V1.8.0 / 31- Dec -2021

Main Changes

1. Bug Fix

- gpio.c
 - Modify GPIO_ResetAllPin()
- comp.h/.c
 - Modify COMP_Init(), add code to enable bandgap
 - Modify COMP_EnableDAC(), add code to enable bandgap
 - Modify COMP_DACBufferInit(), add code to enable bandgap
- adc.c
 - Modify ADC_SetSampleAndConvertTime()
 - Modify ADC_PowerUp(), add code to enable bandgap
- pga.c
 - Modify PGA_DifferentialInit(), add code to enable bandgap
- clock.c
 - Modify CLOCK_ConfigurePLL()
- timer.h
 - Delete TIMER_EnableCounterHold() and TIMER_DisableCounterHold()
- uart.h
 - Modify UART_ClearRx FIFO() and UART_ClearTx FIFO()
- spc1168_reg.h/spc1168_bitfield.h
 - Reserve TMRCCTL.HOLD register bit-field
 - Modify the width of UARTFOR.BYTECNT register bit-field

2. Other Change

- pga.c
 - Add PGA_EnableSensorMode() and PGA_DisableSensorMode()
- flash.h/.c
 - Add FLASH_EraseBlock()
 - Modify FLASH_ProgramWord()
 - Add macro definition *FLASH_CMD_ERASE_BLOCK*
- clock.c
 - Add note for CLOCK_TrimPLL()
 - Modify CLOCK_Init()
- adc.h/.c
 - Modify ADC_CalculatePreciseTemperature() and ADC_CalculateTemperature()
 - Add ADC_EnableBandgap() and ADC_DisableBandgap()
- spc1168_reg.h/spc1168_bitfield.h
 - Reserve XOCTL.FREQSEL register bit-field

- Rename XOCTL.FEEDXOUT register bit-field to XOCTL.FEEDXIO
- crc.h
 - Modify CRC_ModeEnum
- gpio.h
 - Modify the post-fix of const number
- Update SPC1168.svd, SPC1168.SFR, SPC1168.FLM and SPC1168_NVR.FLM files
- iar/startup_spc1168.s
 - Add code comment
- hv.h/.c
 - Add macro definition *HV_TIMEOUT_MAX*
 - Modify HV_Command()
 - Modify HV_InitReg()
 - Add HV_EnableLowVoltageOperation()
- hv_bitfield.h
 - Add macro definition for *PDRVCTL.CPPROTN* register bit-field
- Example Code
 - Modify Flash_M_Access_User
 - Modify Flash_User_FuncWrap
 - Modify AES/main.c
 - Modify High_Voltage_5dot5V_Operation/main.c
 - Modify TSenser/main.c

V1.7.0 / 26-May-2021**Main Changes**

- spc1168.h
 - Add macro function READ_BITS().
 - Add macro function WRITE_FIELD(), READ_FIELD() and CLEAR_FIELD().
 - Add macro function POSITION_VAL().
 - Add macro function UNUSED().
- spc1168_bitfield.h
 - Update TZBCTL.DCBEVT1D bit-field macro definitions.
- flash.c
 - Update function FLASH_SetTiming().
- i2c.c
 - Update function I2C_MasterWrite(), I2C_MasterRead(), I2C_MasterBulkWrite() and I2C_MasterBulkRead().
 - Update function I2C_SlaveBulkWrite().
- clock.c
 - Update function CLOCK_Init(), CLOCK_InitWithRCO(), CLOCK_ConfigurePLL() and CLOCK_ConfigurePLLWithRCO().
 - Update CLOCK_HCLKSelEnum, CLOCK_RefSelEnum definitions.
- comp.c
 - Update function COMP_Init() and COMP_SetFilterWindowTimeNs().
- delay.h/delay.c
 - Update Delay method control macros.
- ssp.c
 - Update function SSP_MasterB2BTransceive() and SSP_SlaveTransceive().
- ecap.c
 - Update function ECAP_CaptureModeInit().
 - Rename function ECAP_SetInputPin() to ECAP_SetInput().
 - Update function ECAP_SetInput().
- pwm.c
 - Update function PWM_ComplementaryPairChannelInit() and PWM_SingleChannelInit().
- hv.h/hv.c
 - Add function HV_ConnectTSensorToAnalogTest().
 - Modify macro definition of pin map between HV and MCU.
 - Remove function HV_WriteRegBits() and add function HV_WriteRegField().
 - Add function HV_SetChargePumpClockDiv() and HV_GetChargePumpClockDiv().
- Demo code
 - Update ECAP_Continue_Absolute\main.c
 - Update ECAP_Continue_Delta\main.c
 - Update ECAP_Oneshot_Absolute\main.c
 - Update UART_TX_and_CheckRX\main.c
 - Update UART_RX_and_SentBack\main.c
 - Update SSP_Master_B2B_TxRx_Polling\main.c

- Update SSP_Master_TxRx_INT\main.c
- Update SSP_Master_TxRx_Polling\main.c
- Update SSP_Slave_B2B_TxRx_Polling\main.c
- Update SSP_Slave_TxRx_INT\main.c
- Update SSP_Slave_TxRx_Polling\main.c
- Update PWM_Trigger_ADC_Sample\main.c
- Update PWM_Current_Protect_Trigger_TZ\main.c
- Update PGA_Calibration\main.c
- Update I2C_Master_Polling_TxRx\main.c
- Update I2C_Master_Bulk_Polling_TxRx\main.c
- Update I2C_Master_INT_Rx\main.c
- Update GPIO_Edge_Detect\main.c
- Update Flash_With_INT\main.c
- Update Flash EEPROM Emulation\EWARM\spc1168.icf
- Update Flash_Frequency_Reduction\EWARM\spc1168.icf
- Update Flash_M_Access_User\EWARM\spc1168.icf
- Update Flash_Operation\EWARM\spc1168.icf
- Update Flash_Sector_Protect\EWARM\spc1168.icf
- Update Flash_User_FuncWrap\EWARM\spc1168.icf
- Update Flash_With_INT\EWARM\spc1168.icf
- Update DAC\main.c

V1.6.0 / 30-April-2020**Main Changes**

- adc.h
 - Update comments on ADC_GetResult(), ADC_GetTrimResult1() and ADC_GetTrimResult2().
- clock.h/clock.c
 - Add macro definition __RCO0_CLOCK and __RCO1_CLOCK for RCO clocks.
 - Remove macro definition __RCO_CLOCK and __XO_CLOCK.
 - Update 3 functions CLOCK_Init(), CLOCK_InitWithRCO() and CLOCK_GetModuleClock() for configuring WDT clock.
- comp.h
 - Rename function COMP_EnableOutputInvert() to COMP_SetOutputActiveLow().
 - Rename function COMP_DisableOutputInvert() to COMP_SetOutputActiveHigh().
- pwm.h
 - Rename macro function PWM_SetTimeEventTiming() to PWM_SetTimeEventIntTiming().
 - Rename macro function PWM_SetTimeEventPeriod() to PWM_SetTimeEventIntPeriod().
 - Add member value *ON_SYNC_PERIOD* to definition *PWM_LoadTimingEnum*.
- system_spc1168.c
 - Remove macro definition __SYSTEM_CLOCK.
- timer.h
 - Add macro function TIMER_SetCounterValue().
- wdt.c
 - Update function WDT_Init() for enabling watchdog halted-run and lockup-run mode.
- epwr.h
 - Rename macro function EPWR_DisableTripEventInputInvert() to EPWR_SetTripEventInputActiveHigh().
 - Rename macro function EPWR_EnableTripEventInputInvert() to EPWR_SetTripEventInputActiveLow().
 - Rename macro function EPWR_DisableTripEventOutputInvert() to EPWR_SetTripEventOutputActiveHigh().
 - Rename macro function EPWR_EnableTripEventOutputInvert() to EPWR_SetTripEventOutputActiveLow().
- hv.c
 - Update 2 functions HV_ReadReg() and HV_WriteReg().

V1.5.0 / 18-November-2019

Main Changes

- Initial release.