

### GPIO

|                      |                          |
|----------------------|--------------------------|
| HAL_GPIO_ReadPin()   | HAL_GPIO_WritePin()      |
| HAL_GPIO_TogglePin() | HAL_GPIO_EXTI_Callback() |

### ADC

|                                |                    |
|--------------------------------|--------------------|
| HAL_ADC_Start()                | HAL_ADC_Stop()     |
| HAL_ADC_Start_IT()             | HAL_ADC_Stop_IT()  |
| HAL_ADC_PollForConversion()    | HAL_ADC_GetValue() |
| HAL_ADC_ConvHalfCpltCallback() |                    |
| HAL_ADC_ConvCpltCallback()     |                    |

### I2C

|                                |                          |
|--------------------------------|--------------------------|
| HAL_I2C_Master_Transmit()      | HAL_I2C_Master_Receive() |
| HAL_I2C_Mem_Write()            | HAL_I2C_Mem_Read()       |
| HAL_I2C_IsDeviceReady()        |                          |
| HAL_I2C_MasterTxCpltCallback() |                          |
| HAL_I2C_MasterRxCpltCallback() |                          |

### UART

|                              |                       |
|------------------------------|-----------------------|
| HAL_UART_Transmit()          | HAL_UART_Receive()    |
| HAL_UART_Transmit_IT()       | HAL_UART_Receive_IT() |
| HAL_UARTEx_ReceiveTxdle()    |                       |
| HAL_UARTEx_ReceiveTxdle_IT() |                       |
| HAL_UART_TxCpltCallback      |                       |
| HAL_UART_RxCpltCallback      |                       |
| HAL_UART_TxHalfCpltCallback  |                       |
| HAL_UART_RxHalfCpltCallback  |                       |

### TIMER

|                                         |                        |
|-----------------------------------------|------------------------|
| HAL_TIM_Base_Start()                    | HAL_TIM_Base_Stop()    |
| HAL_TIM_Base_Start_IT()                 | HAL_TIM_Base_Stop_IT() |
| HAL_TIM_PWM_Start()                     | HAL_TIM_PWM_Stop()     |
| __HAL_TIM_SET_COMPARE()                 |                        |
| __HAL_TIM_GET_COMPARE()                 |                        |
| HAL_TIM_PeriodElapsedHalfCpltCallback() |                        |
| HAL_TIM_PeriodElapsedCallback()         |                        |



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