MESSAGE\_RX\_TX CDD

for

LCD\_LED\_UART

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**Mar 27, 2020**

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# **Global Variables**

**N/A**

# **Configurations**

**N/A**

1. **GPIO APIs**

|  |  |  |  |
| --- | --- | --- | --- |
| **Component Name** | MESSAGE\_RX\_TX | | |
| **API Name** | STD\_ERROR Message\_Init(void) | | |
| **Return type** | It’s u8 Error\_Status, it returns OK or NOT\_OK   |  |  | | --- | --- | | OK | 0 | | NOT\_OK | 1 | | | |
| **Input signal** | * N/A | Output signal | N/A |
| **Description** | Initialize UART | | |
| **Type (Public/Private)** | Public | | |

|  |  |  |  |
| --- | --- | --- | --- |
| **Component Name** | MESSAGE\_RX\_TX | | |
| **API Name** | STD\_ERROR Message\_Send(u32 Num, u16 length) | | |
| **Return type** | It’s u8 Error\_Status, it returns OK or NOT\_OK   |  |  | | --- | --- | | OK | 0 | | NOT\_OK | 1 | | | |
| **Input signal** | Num:   * Type: u32 * Description: number to displayed on lcd   len:   * Type: u16 * Description: length of message | Output signal | N/A |
| **Description** | Send number after dividing it to 4 frames | | |
| **Type (Public/Private)** | Public | | |

|  |  |  |  |
| --- | --- | --- | --- |
| **Component Name** | MESSAGE\_RX\_TX | | |
| **API Name** | STD\_ERROR Message\_Receive(u8\* buffer, u16\* length) | | |
| **Return type** | It’s u8 Error\_Status, it returns OK or NOT\_OK   |  |  | | --- | --- | | OK | 0 | | NOT\_OK | 1 | | | |
| **Input signal** | buffer:   * Type: u8\* * Description: pointer to receive message   len:   * Type: u16\* * Description: pointer to receive message length | Output signal | buffer:  message  len:  message length |
| **Description** | Receive message over UART if available and convert it to a string. | | |
| **Type (Public/Private)** | Public | | |