**Switch Handler  
 Component Detailed Design (CDD)**

**Kenovo - Electric Blender (PO2\_EBL)**

**Document status:**

|  |  |  |  |
| --- | --- | --- | --- |
| **Version** | **Status** | **Author** | **Date** |
| 1.0 | draft | Fatima Gomaa  Esraa Mansour  Mohamed Megahed | 4/3/2020 |

**Document History:**

|  |  |  |  |
| --- | --- | --- | --- |
| **Version** | **Author** | **Date** | **Change Description** |
| 1.0 | Fatima Gomaa  Esraa Mansour  Mohamed Megahed | 4/3/2020 | Initial Creation of Switch Handler CDD |

**Reference Table:**

|  |  |  |  |
| --- | --- | --- | --- |
| **Ref. number** | **Doc. name** | **Version** | **Status** |
| 2 | SRS  GDD | 1.6  1.0 | Released  Released |

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# Software Context Diagram

A picture containing handcart

Description automatically generated

Figure 1 Switch Handler Software Context

# Component APIs

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| **Req\_ID** | Req\_ PO2\_EBL\_Electric\_Blender\_CDD\_002-1.0 | | | | **Covers** | | Covers\_ PO2\_EBL\_Electric\_Blender\_GDD\_002-1.0 |
| **Author** | Fatima Gomaa  Esraa Mansour  Mohamed Anwar | | | | **DATE** | | 4/3/2020 |
| **Syntax** | errState Read\_SwitchState(u8 Switch\_CH, u8 \*BData); | | | | | | |
| **Scope** | Public | | | | | | |
| **Description** | This Function shall read if the button is pressed or not. | | | | | | |
| **Flowchart** | A close up of a piece of paper  Description automatically generated | | | | | | |
| **Parameters** | **Name** | **Type** | **Min value** | **Max value** | | **Description** | |
| Switch\_CH | u8 | 0 | 0 | | Which button is being checked. | |
| BData | u8 \* | 0 | 1 | | Pointer to the variable that will hold the returned button status.   1. Means that the button is not pressed. 2. Means that the button is pressed. | |
|  | **Name** | **Type** | **Min value** | **Max value** | | **Description** | |
| Local\_errState | errState | NOK | OK | | Pointer to the variable that will hold the returned button error status.  (OK) Means that the button is not pressed.  (NOK) Means that the button is pressed. | |