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| SOVY |
| Digital Calculator PO1\_DGC\_CDD |

## Port:

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| **Req\_ID** | Req\_PO1\_Port\_CDD\_001-V1.0 | | **Covers** |  | Req\_PO1\_DGC\_GDD\_001-V1.0 |
| **Description:** | Initialize all pins and ports to their operation mode and initial values | | | | |
| **API** | **Port\_vidInit** | | | | |
| **Parameters** | **Type** | **Name** | | | **Description** |
| void | \_\_\_\_\_ | | | \_\_\_\_\_ |
| **Return** | **Type** | **Name** | | | **Description** |
| void | \_\_\_\_\_ | | | \_\_\_\_\_ |

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| **Req\_ID** | Req\_PO1\_Port\_CDD\_002-V1.0 | | **Covers** |  | Req\_PO1\_DGC\_GDD\_002-V1.0 |
| **Description:** | This function is used to change the Software pin Mode | | | | |
| **API** | **Port\_vidSetPinMode** | | | | |
| **Parameters** | **Type** | **Name** | | | **Range** |
| u8 | Copy\_u8SwPinNo | | | **{PORT\_u8PIN\_0 -> PORT\_u8PIN\_31}** |
| **Type** | **Name** | | | **Range** |
| u8 | Copy\_u8PinMode | | | **PORT\_u8OUTPUT\_LOW, PORT\_u8OUTPUT\_HIGH, PORT\_u8INPUT\_PULL\_UP,**  **PORT\_u8INPUT\_HIGH\_IMP** |
| **Return** | **Type** | **Name** | | | **Description** |
| void | \_\_\_\_\_ | | | \_\_\_\_\_ |

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| **Req\_ID** | Req\_PO1\_Port\_CDD\_003-V1.0 | | **Covers** |  | Req\_PO1\_DGC\_GDD\_003-V1.0 |
| **Description:** | This function is used to change the Software pin Mode | | | | |
| **API** | **Port\_vidSetPinDir** | | | | |
| **Parameters** | **Type** | **Name** | | | **Range** |
| u8 | Copy\_u8SwPinNo | | | **{PORT\_u8PIN\_0 -> PORT\_u8PIN\_31}** |
| **Type** | **Name** | | | **Description** |
| u8 | Copy\_u8PinDir | | | **Port\_u8INPUT**  **Port\_u8OUTPUT** |
| **Return** | **Type** | **Name** | | | **Description** |
| void | \_\_\_\_\_ | | | \_\_\_\_\_ |

## Dio

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| **Req\_ID** | Req\_PO1\_ DIO\_CDD\_004-V1.0 | | **Covers** |  | Req\_PO1\_DGC\_GDD\_004-V1.0 |
| **Description:** | This function is used to change the Software pin Value | | | | |
| **API** | **Dio\_u8SetPinVal** | | | | |
| **Parameters** | **Type** | **Name** | | | **Range** |
| u8 | Copy\_u8SwPinNo | | | **PORT\_u8PIN\_0 -> PORT\_u8PIN\_31** |
| **Type** | **Name** | | | **Description** |
| u8 | Copy\_ u8SwPinVal | | | **DIO\_u8HIGH,**  **DIO\_u8LOW** |
| **Return** | **Type** | **Name** | | | **Description** |
| u8 | \_\_\_\_\_ | | | \_\_\_\_\_ |

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| **Req\_ID** | Req\_PO1\_DIO\_CDD\_005-V1.0 | | **Covers** |  | Req\_PO1\_DGC\_GDD\_005-V1.0 |
| **Description:** | This function is used to get the Software pin Value | | | | |
| **API** | **Dio\_u8GetPinVal** | | | | |
| **Parameters** | **Type** | **Name** | | | **Range** |
| u8 | Copy\_u8SwPinNo | | | **{DIO\_u8PIN\_0 -> DIO \_u8PIN\_31}** |
| **Return** | **Type** | **Name** | | | **Range** |
| U8 | Copy\_ u8SwPinVal | | | **{DIO\_u8HIGH, DIO\_u8LOW}** |