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

## Keypad

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| **Req\_ID** | Req\_PO1\_Keypad\_CDD\_001-V1.0 | | **Covers** |  | Req\_PO1\_DGC\_GDD\_KEYYPAD\_0015-V1.1 |
| **Description:** | This function sets all row configured pins to high (logic 1) | | | | |
| **API** | **Keypad\_vidInit** | | | | |
| **Parameters** | **Type** | **Name** | | | **Description** |
| void | \_\_\_\_\_ | | | \_\_\_\_\_ |
| **Return** | **Type** | **Name** | | | **Description** |
| void | \_\_\_\_\_ | | | \_\_\_\_\_ |

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| **Req\_ID** | Req\_PO1\_Keypad\_CDD\_002-V1.0 | | **Covers** |  | Req\_PO1\_DGC\_GDD\_KEYYPAD\_0015-V1.1 |
| **Description:** | This function returns which key is pressed on the keypad and if no key is pressed | | | | |
| **API** | **Keypad\_u8getKey** | | | | |
| **Parameters** | **Type** | **Name** | | | **Description** |
| void | \_\_\_\_\_ | | | \_\_\_\_\_ |
| **Return** | **Type** | **Name** | | | **Description** |
| u8 | -Keypad\_u8noKey  -Keypad\_u8PressedKey | | | 0xff  Range: ('1','2','3','+','4','5','6','-','7','8','9','\*','#','0','=','/' ) |

## Timer

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| **Req\_ID** | Req\_PO1\_Timer\_CDD\_001-V1.0 | | **Covers** |  | Req\_PO1\_DGC\_GDD\_TIMER\_006-V1.1 |
| **Description:** | This function is used to set the initial mode of the timer | | | | |
| **API** | **Gpt\_vidInit** | | | | |
|  | **Type** | **Name** | | | **Description** |
| void | \_\_\_\_\_ | | | \_\_\_\_\_ |
| **Return** | **Type** | **Name** | | | **Description** |
| void | \_\_\_\_\_ | | | \_\_\_\_\_ |

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| **Req\_ID** | Req\_PO1\_Timer\_CDD\_002-V1.0 | | **Covers** |  | Req\_PO1\_DGC\_GDD\_TIMER\_007-V1.1 |
| **Description:** | This function is used to start the timer | | | | |
| **API** | **Gpt\_vidStartTimer** | | | | |
| **Parameters** | **Type** | **Name** | | | **Description** |
| void | \_\_\_\_\_ | | | \_\_\_\_\_ |
| **Return** | **Type** | **Name** | | | **Description** |
| void | \_\_\_\_\_ | | | \_\_\_\_\_ |

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| **Req\_ID** | Req\_PO1\_Timer\_CDD\_003-V1.0 | | **Covers** |  | Req\_PO1\_DGC\_GDD\_TIMER\_008-V1.1 |
| **Description:** | This function is used to stop the timer | | | | |
| **API** | **Gpt\_vidStopTimer** | | | | |
| **Parameters** | **Type** | **Name** | | | **Description** |
| void | \_\_\_\_\_ | | | \_\_\_\_\_ |
| **Return** | **Type** | **Name** | | | **Description** |
| void | \_\_\_\_\_ | | | \_\_\_\_\_ |

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| **Req\_ID** | Req\_PO1\_Timer\_CDD\_004-V1.0 | | **Covers** |  | Req\_PO1\_DGC\_GDD\_TIMER\_009-V1.1 |
| **Description:** | This function is used to set the call back function of the Timer | | | | |
| **API** | **Gpt\_vidSetCBF** | | | | |
| **Parameters** | **Type** | **Name** | | | **Description** |
| Pointer to function | Void (\*pfun)(void) | | |  |
| **Return** | **Type** | **Name** | | | **Description** |
| void | \_\_\_\_\_ | | | \_\_\_\_\_ |

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| **Req\_ID** | Req\_PO1\_Timer\_CDD\_005-V1.0 | | **Covers** |  | Req\_PO1\_DGC\_GDD\_TIMER\_0010-V1.1 |
| **Description:** | This function is used to load the timer with a value | | | | |
| **API** | **Gpt\_vidLoadTimer** | | | | |
| **Parameters** | **Type** | **Name** | | | **Description** |
| u8 | Copy\_u8Value | | | in range {0-255} |
| **Return** | **Type** | **Name** | | | **Description** |
| void | \_\_\_\_\_ | | | \_\_\_\_\_ |

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| **Req\_ID** | Req\_PO1\_Timer\_CDD\_006-V1.0 | | **Covers** |  |  |
| **Description:** | This function is used to enable the notification for the timer | | | | |
| **API** | **GPT\_vidEnableNotification** | | | | |
| **Parameters** | **Type** | **Name** | | | **Description** |
| void | \_\_\_\_\_ | | | \_\_\_\_\_ |
| **Return** | **Type** | **Name** | | | **Description** |
| void | \_\_\_\_\_ | | | \_\_\_\_\_ |

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| **Req\_ID** | Req\_PO1\_Timer\_CDD\_007-V1.0 | | **Covers** |  |  |
| **Description:** | This function is used to disable the notification for the timer | | | | |
| **API** | **GPT\_vidDisableNotification** | | | | |
| **Parameters** | **Type** | **Name** | | | **Description** |
| void | \_\_\_\_\_ | | | \_\_\_\_\_ |
| **Return** | **Type** | **Name** | | | **Description** |
| void | \_\_\_\_\_ | | | \_\_\_\_\_ |