

<b>Document Title</b>	Requirements & Specification of KEYPAD Driver
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1. Scope of Document

This document specifies requirements on the module KEYPAD Driver. The KEYPAD driver is targeting Successive Approximation KEYPAD Hardware.

## 2. API specification

### 2.1. Imported types

Module	Header File	Imported Type
lib	STD_TYPES.h	OK
	"MemMap.h"	
	UTILS.h	
	DIO_TYPES.h	
	DIO_CONFIG.h	
	KEYPAD_INTERFACE.h	
	KEYPAD_CONFIG.h	

### 2.2 Functions definitions

#### 2.2.1 KEYPAD\_vidInit

Service Name	KEYPAD_vidInit	
Syntax	void KEYPAD_vidInit(void);	
Reentrancy	Non-reentrant	
Parameters (in)	none	
Parameters (inout)	none	
Parameters (out)	none	
Return value	none	
Description	This API initialize the KEYPAD with the prebuild configurations via KEYPAD_INTERFACE.h file and returns error state	
Available via	KEYPAD_INTERFACE.h	

#### 2.2.2 KEYPAD\_unit8ReadButton

Service Name	KEYPAD_unit8ReadButton	
Syntax	KEYPAD_DataSTATUS KEYPAD_unit8ReadButton(void);	
Reentrancy	reentrant	
Parameters (in)	none	
Parameters (inout)	none	
Parameters (out)	KEYPAD_DataSTATUS	
Return value	Struct : uint8 data; STD_TYPE status;	Status: E_OK: data is done E_NOK: data is null
Description	This API USE KEYPAD_unit8ReadButton to read any button from KEYPAD by bassing struct from uint8 , STD_TYPE	
Available via	KEYPAD_INTERFACE.h	