Lcd_module

API DESIGN TABLE

FUNCTION NAME	LCD_init			
ARGUMENTS	INPUT	Name	LCD_config	
		Туре	Ptr to LCD_initTypeDef	
		Description	Selects Icd mode and pins	
	OUTDUT	NONE		
	OUTPUT	NONE		
	INPUT/OUTPUT	NONE		
RETURN	E_OK	0		
	E_NOK	1		
DESCRIPTION	Initialize lcd and choose the specified modes			

FUNCTION NAME	LCD_sendData			
ARGUMENTS	INPUT		Name Type Description	LCD_DATA U8 Character to be sent one
	OUTPUT INPUT/OUTPUT	NONE NONE		
RETURN	E_OK E_NOK	0 1		
DESCRIPTION	This function sends one character to the LCD			

FUNCTION NAME	LCD_sendComma	nd	
ARGUMENTS	OUTPUT INPUT/OUTPUT	Name Type Description NONE NONE	LCD_COMMAND LCD_commandsTypeDef COMMAND TO BE SEND TO LCD
RETURN	E_OK E_NOK	0	

Data type table

Name	L	CD_initTypeDef	
Туре	S	tructure	
Elements		Name	LCD_MODE
		Туре	DIO_pinTypeDef
		Description	SPECIFIES THE GPIO
			PIN TO BE
			CONFIGURED
		Name	LCD_pins
		Туре	Array of LCD_portPin
		Description	Select the connected
			pins to lcd. This array
			contains pins from
			pin 8 to pin 4 or 0
			depending on the
			mode
Description	C	Configuration	

Name	LCD_commandsTypeDef	
Туре	Enumeration	
Elements	CLEAR	0x01
	CURSOR_OFF	0x0C
	CURSOR_ON	0x0E
	SET_CURSOR_LOC	0x80
	FOUR_BITS_ONE_LINE	0x20
	EIGHT_BITS_ONE_LINE	0x30
	FOUR_BITS_TWO_LINE	0x28
	EIGHT_BITS_TWO_LINE	0x38
description	Commands to be sent to I	.CD

Name	L	CD_portPin	
Туре	Structure		
Elements		Name	DIO_PIN
		Туре	DIO_pinTypeDef
		Description	SPECIFIES THE GPIO
			PIN TO BE
			CONFIGURED
		Name	DIO_PORT
		Туре	DIO_portTypeDef

	Description Select if the pin is	
	output or input	
Description	Selects a specified pin for the lcd	