

TIMER_module

API DESIGN TABLE

FUNCTION NAME	TIM_deInit			
ARGUMENTS	INPUT	Name	TIM_channel	
		Type	TIM_channelTypeDef	
		Description	Selects a certain timer channel	
	OUTPUT	NONE		
	INPUT/OUTPUT	NONE		
RETURN	E_OK	0		
	E_NOK	1		
DESCRIPTION	<u>Disable a timer channel</u>			

FUNCTION NAME	TIM_init			
ARGUMENTS	INPUT	Name	TIM_config	
		Type	Ptr to TIM_initTypeDef	
		Description	Pointer to the configuration structure	
	OUTPUT	NONE		
	INPUT/OUTPUT	NONE		
RETURN	E_OK	0		
	E_NOK	1		
DESCRIPTION	<u>Initialize a timer peripheral</u>			

FUNCTION NAME	TIM_start									
ARGUMENTS	INPUT		Name	TIM_channel						
			Type	TIM_channelTypeDef						
			Description	Selects the						
			Name	TIM_period						
			Type	U16(hardware dependent)						
			Description	The number of ticks the timer takes to overflow/underflow						
		OUTPUT	NONE							
	INPUT/OUTPUT	NONE								
RETURN	E_OK	0								
	E_NOK	1								
DESCRIPTION	The selected timer starts counting for a specified period.									

FUNCTION NAME	TIM_STOP									
ARGUMENTS	INPUT			Name	TIM_channel					
				Type	TIM_channelTypeDef					
				description	Selects a certain timer channel.					
	OUTPUT	NONE								
	INPUT/OUTPUT	NONE								
RETURN	E_OK	0								
	E_NOK	1								
DESCRIPTION	Stops the specified timer channel									

Data type table

Name	TIM_channelTypeDef		
Type	Enumeration		
Elements	TIMER_ONE	1	
	TIMER_TWO	2	
	TIMER_THREE	3	
description	This enumeration represents the timers of the target		

Name	TIM_irqEnableTypeDef		
Type	Enumeration		
Elements	TIM_IRQ_ENABLE	1	
	TIM_IRQ_DISABLE	2	
description	DISABLE/ENABLE timers interrupt		

Name	TIM_initTypeDef		
Type	Structure		
Elements		Name	TIM_channel
		Type	TIM_channelTypeDef
		Description	Selects a certain timer channel
		Name	TIM_prescaler
		Type	U16(target dependent)
		Description	Select certain prescaler to slow down the target clock
		Name	TIM_irqEnable
		Type	TIM_irqEnableTypeDef
		description	Disable or enable interrupts
Description	Configuration structure		