

# TCA\_EXT\_TRIG

## 1. Operation Outline

Lighting or lighting-out of the LED is switched every setting interval using the external trigger timer mode of TCA timer.

## 2. Each Setting

<u>Timer register</u>	: default = 0x0100	main.c: Changing the value of "#define TCA_EXT_TRIG_INTERVAL" allows changing the interval.
<u>Input pulse to TCA0 pin</u>	: default = (fcgck/2)/10	
<u>Trigger edge</u>	: default = falling edge	main.c: Changing the value of "#define TCA_EXT_TRIG_EDGE" allows changing the trigger edge.
<u>Source clock</u>	: default = fcgck/2	main.c: Changing the value of "#define TCA_EXT_TRIG_CLK" allows changing the source clock.
<u>Noise cancellation</u>	: None	main.c: Changing the value of "#define TCA_EXT_TRIG_NOIZE_CANCEL" allows changing the noise cancellation setting.
<u>Trigger input</u>	: TCA0 (Port72)	
<u>LED</u>	: LED1 (Port26)	
<u>Timer interrupt</u>	: INTTCA0	

## 3. Basic Operation

Lighting or lighting-out of LED1 is switched every interval according to the timer register, input pulses, and source clock.

## 4. Note

None.