

# WDT

## 1. Operation Outline

- The macro "WDT\_DEMO\_CLEAR" is not defined:  
The LEDs blink in the program execution state. When the NMI interrupt is generated by the Watchdog timer, all LEDs light out.
- The macro "WDT\_DEMO\_CLEAR" is defined:  
The LEDs blink in the program execution state. The counter is cleared by writing a clear code periodically.  
Therefore, the NMI interrupt is not generated and the program execution state (LED blinking state) is not changed.

## 2. Each Setting

<u>Watchdog timer detection time</u>	: default = $2^{24}/f_{cgck}$	main.c: Changing the value of "#define WDT_DETECTION_TIME" allows changing the WDT detection time.
<u>Clear time setting of 8-bit upcounter clear</u>	: default = a half of overflow time	main.c: Changing the value of "#define WDT_COUNT_CLR_TIME" allows changing the counter clear time
<u>LED</u>	: LED0 (Port25) : LED1 (Port26) : LED2 (Port27) : LED3 (Port11)	
<u>LED blinking interval</u>	: Repeats 1s lighting to 1s lighting-out	

## 3. Basic Operation

In the NORMAL state, LEDs blink. LEDs light out according to the watchdog timer detection.  
Whether the clear code is written or not is determined by the macro "WDT\_DEMO\_CLEAR" definition.

## 4. Note

None.