

1.Operation Summary

This is sample program that is adjusts internal oscillator using Trimming circuit (TRM) on TPM4G9F15FG.
You can use as reference clock either external signal or low-speed clock(32.768kHz).

2.Board setting

Connect the terminal on the evaluation board as follows
CN9 1-2 5-6

3.Basic Operation

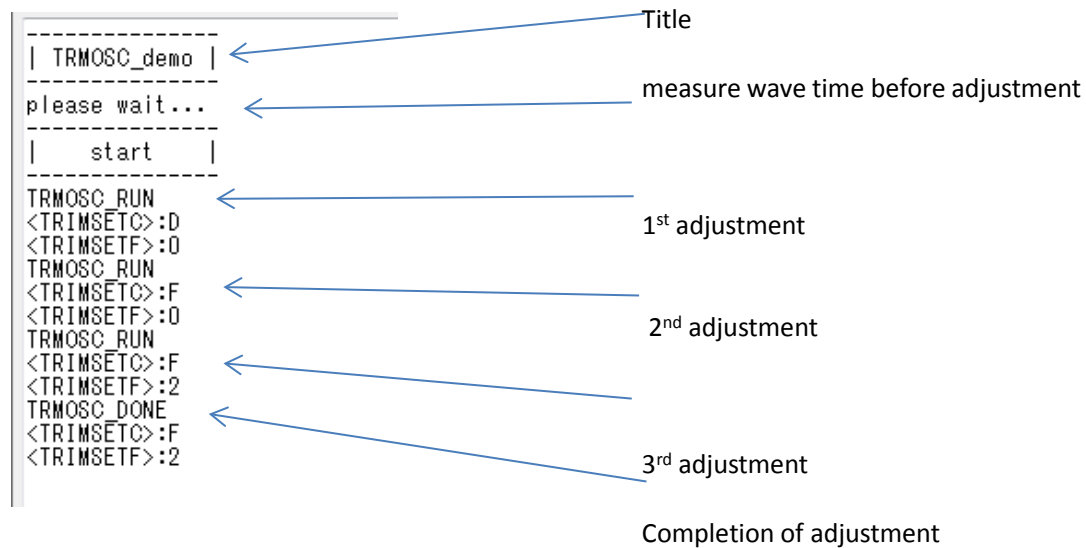
1. The reference clock use low-speed clock (32.768 k Hz) .
Enable line number19 #define TRMOSC_LOSC in txz_sample_def.h.
2. The reference clock use external signal.
 - 2-1.Comment out line number19 #define TRMOSC_LOSC in txz_sample_def.h.
 - 2-2.The reference clock is input to the PB0(T32A02INA0)
Reference clock spec.240Hz

Can use the following UART signal.

Baud Rate	2400bps
Data	8bit
Parity	none
Stop bit	1
Transmission data	0xF0
Calculated value of frequ	240 Hz

- 3.Calculate error on program and set adjust data to Trimming Value Setting Register.

4. Output the adjust result in terminal software at PC.



5. Monitor output signal of PA1(T32A00OUTA).

Outputs signal spec.

Adjusted frequency (expectation) 5MHz

Internal oscillator	: 10MHz
Source clock $\phi T0$: $10\text{MHz}/2 = 5\text{MHz}$
Reverse T32A00OUTA at 5MHz	: $5\text{MHz}/2 = 2.5\text{MHz}$