

# ADC\_MONITER

## 1. Operation Outline

The measured result of temperature by the thermistor is displayed on the terminal emulator.

By using AD monitor function, the LED display pattern changes depending on the measured result of temperature.

## 2. Board setting

Connect the terminal on the evaluation board as follows.

CN5	1-2	CN12	13-14	CN9	1-2
	3-4				3-4
					5-6
					7-8

## 3. Each Setting

Display cycle : default 5000(ms)

The cycle can be changed by main.c:"#define CFG\_OUTPUT\_INTERVAL".

ADC : AINA16 (PR0) Connected to the thermistor

UART : UT0RXD(PE2)  
: UT0TXDA(PE3)

### Serial port setting

Baud rate : 115200(bps)

Data : 8(bit)

Parity : None

Stop : 1(bit)

Flow control : None

<u>LED</u>	: PE4	D10
	: PE5	D9
	: PE6	D8
	: PE7	D7

### 3. Basic Operation

The value of the output voltage of a thermistor is measured by ADC.

Then, it is adjusted using temperature correcting means and output to the terminal emulator every set cycle.

By using AD monitor function, the LED display pattern changes as follows:

	D10	D9	D8	D7
Result <= 24 degrees	OFF	OFF	OFF	OFF
25 degrees <= Result <= 35 degrees	ON	ON	OFF	OFF
36 degrees ≤ Result	ON	ON	ON	ON

Output example:

Temp:28degrees

### 4. Note

Nothing.