

1.Operation Summary

Display the signal received by RMC in the Tera Term

2.Board setting

Connect the terminal on the evaluation board as follows.

CN5 1-2,3-4 CN18 25-26

3.Basic Operation

Custom Code (16bit), Data Code (8bit), and Inverted Data Code (8bit) received by RMC are output to the terminal software through USB-UART connection.

For the Receivable format, specify the format you want to receive in macro definition in main.c as the value of RMC_UART_CFG_FORMAT.

```
44: #define RMC_UART_CFG_NEC_FORMAT (0)          /* NEC Format */
45: #define RMC_UART_CFG_TOSHIBA_FORMAT (1)      /* TOSHIBA Format */
46: #define RMC_UART_CFG_AEHA_FORMAT (2)        /* AEHA Format */
```

RMC Setting

RXIN

Receiver module

Receiveable format0

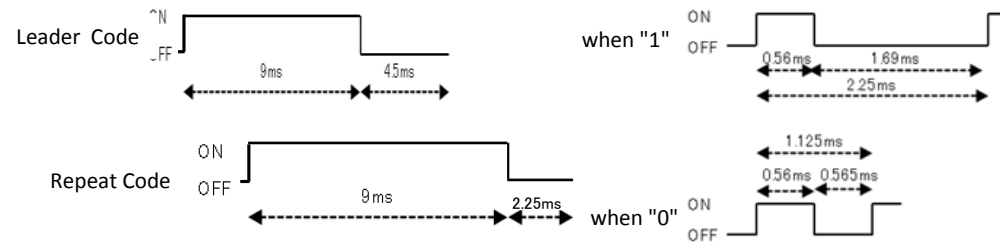
:PT3

:RPM7138-R

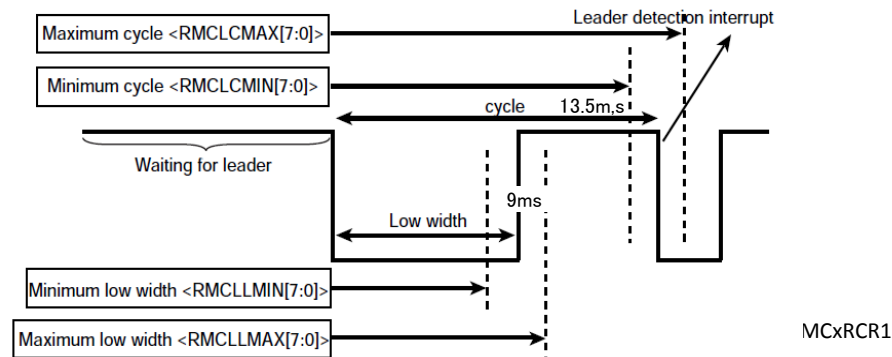
:NEC format

Leader Code	Custom Code	Data Code	Data Code (Inverted)	Stop Bit
	16bit	8bit	8bit	

timing of data code



Leader detection setting



:fs (kHz)	32.768
:Low period lower limit (msec)	8.8
:Low period upper limit (msec)	9.2
:Cycle time lower limit(msec)	13.3
:Cycle time upper limit(msec)	13.7

	Decimal	Hex
RMCLLMIN:	72.0896	48
RMCLLMAX:	75.3664	4B
RMCLCMIN:	108.9536	6C
RMCLCMAX:	112.2304	70
RMCDMAX:	254	FE
RMCDATL:	55.7056	37

Remote control code receipt end setting

Data bit 0/1 determination

:Threshold (msec)	1.7
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(Above and equal to the threshold : " 1 ",
Under the threshold : " 0 ")

Receivable format1

:TOSHIBA format

The time of the leader part in the NEC format is different. (9 ms → 4.5 ms)

Others are equivalent to NEC format.

:fs (kHz)	32.768
:Low period lower limit (msec)	4.3
:Low period upper limit (msec)	4.7
:Cycle time lower limit(msec)	8.8
:Cycle time upper limit(msec)	9.2

Remote control code receipt end set :

Data bit 0/1 determination

:Threshold (msec)	1.7
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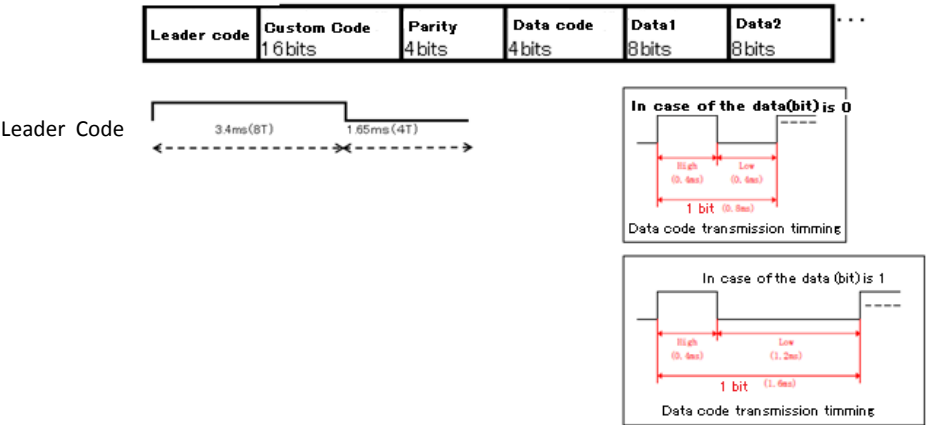
(Above and equal to the threshold : " 1 "

Under the threshold : " 0 ")

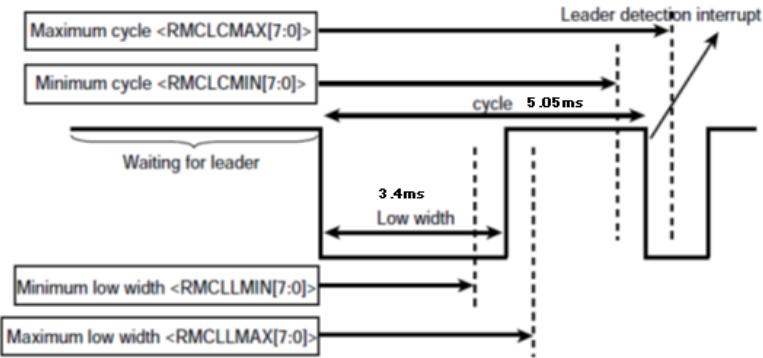
	Decimal	Hex
RMCLLMIN:	35.2256	23
RMCLLMAX:	38.5024	26
RMCLCMIN:	72.0896	48
RMCLCMAX:	75.3664	4B
RMCDMAX:	254	FE
RMCDATL:	55.7056	37

Receivable format1

:AEHA



Leader detection setting



Remote control code receipt end setting

Data bit 0/1 determination

:fs (kHz)	32.768
:Low period lower limit (msec)	3.2
:Low period upper limit (msec)	3.7
:Cycle time lower limit(msec)	4.9
:Cycle time upper limit(msec)	5.4

:Threshold (msec)	1.2
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	Decimal	Hex
RMCLLMIN:	26.2144	1A
RMCLLMAX:	30.3104	1E
RMCLCMIN:	40.1408	28
RMCLCMAX:	44.2368	2C
RMCDMAX:	254	FE
RMCDATL:	39.3216	27

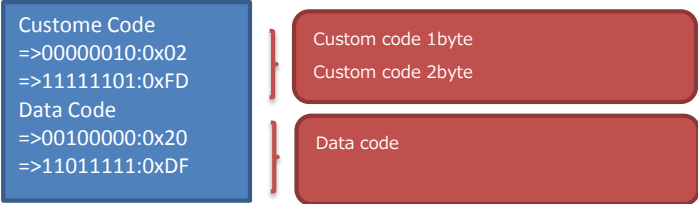
(Above and equal to the threshold : " 1 ",
Under the threshold : " 0 ")

UART Setting

TXD	:PE2
Baud Rate	:115200(bps)
Data	:8(bit)
Parity	: none
Stop Bit	:1(bit)
Flow Control	none

4.Output Example

:NEC format/Toshiba format



:AEHA format

