TOSHIBA

SP-870-017

REMRCV2

--Receiving Remote Control Signal Using Externally Triggered Timer--

Rev 1.1
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1. Target MCU

This sample program is created targetting at the TLCS-870/X series.
When using an MCU other than the TLCS-870/X series, refer to the data sheet for that MCU.

2. Overview

This sample program receives a remote controller signal using an externally triggered timer.

3. Description

- Remote controller input -> P12 (INT2/TC1)
- Remote controller waveform: AEHA (Association for Electric Home Appliances) format

Leader	: 1bit
Manufacturer code	: 16bits
Parity	: 4bits
Device code	: 12bits
Data code section	: 16bits
Trailer	

The manufacturer code, parity, and device code are specified as constants.
The data code section consists of 8-bit data code and 8-bit inverted data code.

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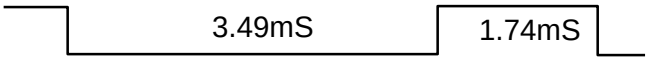
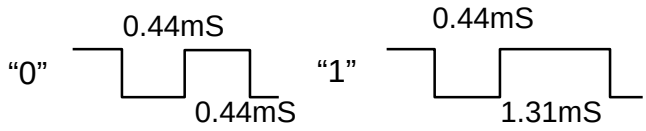
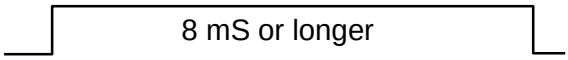
- Leader



- Bit



- Trailer



4. Passing Data

Use the following variables to exchange data:

[Variable: GREMFLG] Measurement flag

bit7 FREMOK =0: Not received =1: Received

[Variable: GREMDAT] Received code

5. Interrupts

- TC1 interrupts: To determine data
- TC3 interrupts: To check for limits

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