March 2013

Important Notice

Thank you for your continued patronage of Toshiba microcontrollers.

This page gives you important information on using Toshiba microcontrollers. Please be sure to check each item for proper use of our products.

- **Restrictions on use of BACKUP STOP mode and BACKUP SLEEP mode** (March 2013)

  *If your datasheet is dated 21 June 2011 or earlier, please download the latest datasheet or request it from your local Toshiba office.

Toshiba Microcontroller TX03 series

TX03 series

TMPM361F10FG TMPM362F10FG TMPM363F10FG TMPM364F10FG

Restrictions on use of BACKUP STOP mode and BACKUP SLEEP mode

This is to inform you of restrictions on use of BACKUP STOP and BACKUP SLEEP modes of TX03 series. If you need any further information, please contact your local Toshiba sales representative.

【Notes on use of BACKUP STOP mode and BACKUP SLEEP mode】

In the BACKUP STOP mode or BACKUP SLEEP mode (hereafter called BACKUP mode), if a MCU returns to NORMAL mode by reset using the reset pin, the following phenomenon may occur.

(1) Parts of registers in the CPU may not be initialized correctly. Thus, CPU may not operate properly.
(2) Parts of peripheral circuits may not be initialized correctly.

【Condition】

This phenomenon occurs only when a MCU returns to NORMAL mode from BACKUP mode by reset using the reset pin. Other events do not generate this phenomenon.

【Restrictions】 (Workaround)

You can use the following two methods to avoid this phenomenon.

(1) Do not use BACKUP mode.
(2) If BACKUP mode is used, do not use the return service routine to NORMAL mode using the reset pin.

【How to recover from the phenomenon】

Turn on MCU's power again when this phenomenon occurs.