

B5XXB IOB3 设定为双向 IO 设置说明

1. 软件设定：

E5x / B5x 的寄存器

2.1.6 PORTA, PORTB (Port Data Registers)

| Address | Name | B7 | B6 | B5 | B4 | B3 | B2 | B1 | B0 |
|-----------|-------|------|------|------|------|------|------|------|------|
| 05h (r/w) | PORTA | | | | | IOA3 | IOA2 | IOA1 | IOA0 |
| 06h (r/w) | PORTB | IOB7 | IOB6 | IOB5 | IOB4 | IOB3 | IOB2 | IOB1 | IOB0 |

Reading the port (PORTA, PORTB register) reads the status of the pins independent of the pin's input/output modes.
Writing to these ports will write to the port data latch.

PORTA is a 4-bit port data Register. Only the low order 4 bits are used (PORTA<3:0>). Bits 7-4 are general purpose read/write bits.

PORTB is a 8-bit port data register. And IOB3 is input only.

请注意：IOB3 是只能做输入。

B5xxB 的寄存器

2.1.17 IOSTA & IOSTB (Port I/O Control Registers)

| Address | Name | B7 | B6 | B5 | B4 | B3 | B2 | B1 | B0 |
|---------|-------|--------|--------|--------|--------|--------|--------|--------|--------|
| N/A (w) | IOSTA | | | | | IOSTA3 | IOSTA2 | IOSTA1 | IOSTA0 |
| N/A (w) | IOSTB | IOSTB7 | IOSTB6 | IOSTB5 | IOSTB4 | IOSTB3 | IOSTB2 | IOSTB1 | IOSTB0 |

Accessed by IOST instruction.

The Port I/O Control Registers are loaded with the contents of the ACC Register by executing the IOST R (05h~06h) instruction.

The IOST Registers are “write-only” and are set (output drivers disabled) upon RESET.

IOSTA3:IOSTA0 : PORTA I/O control bit.

- = 1, PORTA pin configured as an input (tri-stated).
- = 0, PORTA pin configured as an output.

IOSTB7:IOSTB0 : PORTB I/O control bit.

- = 1, PORTB pin configured as an input (tri-stated).
- = 0, PORTB pin configured as an output.

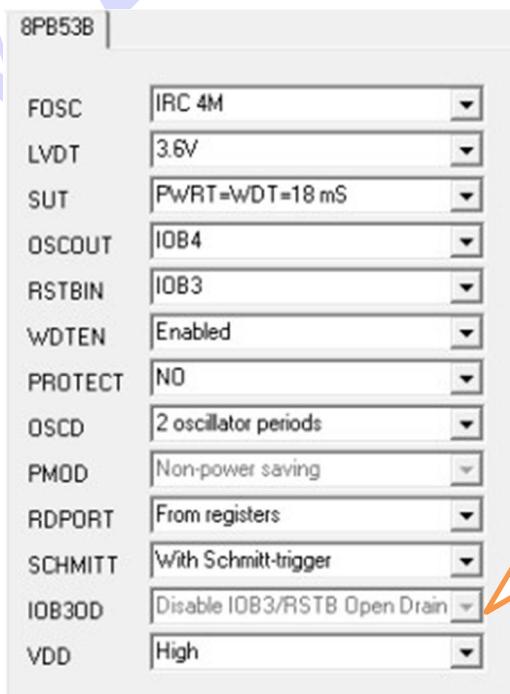
Note: 1. IOB3 is open-drain output only if IOSTB3 = 0.

2. *The IOB3 open-drain function will be fixed to “Disable” by H/W if the configuration bit IOB3OD= Disable, even if bit IOSTB3 = 0.*

请注意 Note 的部分：

- A. 假如软件设置 IOSTB3=0，表示 IO3 是 Open-Drain 输出。
- B. IOB3 的 Open-drain 功能是固定为 Disable，这是由硬件来决定。当配置 IOB3OD=Disable 时，即使设置 IOSTB3=0，还是只能当输入。
- C. 若要使 IOB3 当输出(IOSTB3=0)，要记得在烧录配置表里将 IOB3OD 选择为 Enable 。

2. 配置表设定：



Disable IOB3/RSTB Open Drain :

表示 IOB3 只能当输入功能。

(IOSTB3=1 /0 ->Input)

Enable IOB3/RSTB Open Drain :

表示 IOB 可以当双向 IO 口，由软件来选择。

(IOSTB3=1 /0 ->Input/Output)