

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：

- 假如软件设置 IOSTB3=0，表示 IO3 是 Open-Drain 输出。
- 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。
- 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：

8P853B	
FOSC	IRC 4M
LVDT	3.6V
SUT	PwRT=wDT=18 mS
OSCOUT	IOB4
RSTBIN	IOB3
WDTEN	Enabled
PROTECT	NO
OSCD	2 oscillator periods
PMOD	Non-power saving
RDPORT	From registers
SCHMITT	With Schmitt-trigger
IOB3OD	Disable IOB3/RSTB Open Drain
VDD	High

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)