PMC-APN010 PMC131 / PMS131 PB.3 IO Port

PMC131 / PMS131 PB.3 IO Port <u>Application Note</u>

Applied for: PMC131 / PMS131

When PB.3 is used as digital input and any other pin of Port B is used as output pin, please do NOT issue set1/set0 commands to control the output pin state. The correct way is to write the Port B data register pb to control the output pin state, or restrict PB3 as output pin only. When PB.3 is used as analog (AD) input pin, the pbdier.3 must be set to 0 (pbdier.3=0) to avoid leakage current.

```
Example: Using PB3 as digital input pin, and PB7 as output pin.
pbc
        = 0b_1111_0111;
pb
        = 0b_0000_0000;
pbph
        = 0b_1000_1000;
                             // PB3 is set to enable internal pull high
$ pbdier 0b_1111_1111;
Please do NOT use set1/set0 command to set PB7 output pin state.
if (pb.3)
{
set1 pb.7; // Don't use pb.7 = 1, either!
}
else
set0 pb.7; // Don't use pb.7 = 0, either!
}
The correct way is to write the Port B data register to control PB7 output pin state.
if (pb.3)
pb = 0b_1000_0000; // bit 3 must be 0
}
else
pb = 0b_0000_0000; // bit 3 must be 0
}
```