

致尊敬的顾客

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瑞萨电子公司网址：<http://www.renesas.com>

2010年4月1日  
瑞萨电子公司

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### PWM 功能失效

#### Trouble

用户反映，基于 H8SLP 内核的 H8/38104 MCU 的 P90,P91 端口的 PWM 功能失效

#### Analyze

检查硬件电路，发现用户在在硬件电路设计时，没有处理相应的端口:悬空。

H8/38104 MCU 的 P90,P91 端口的硬件电路见下图:

#### B.7 Port 9 Block Diagrams

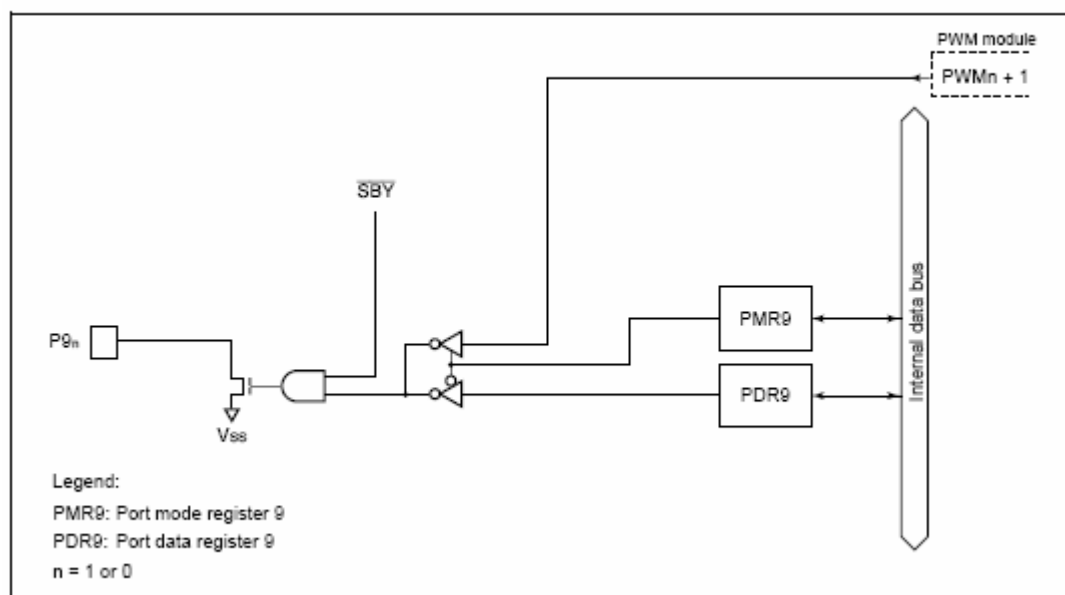


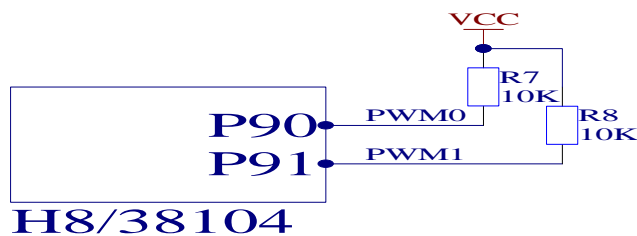
Figure B.7(a) Port 9 Block Diagram (Pins P91 and P90)

RTSHCMCAN0012-0100 Rev.1.00

### Do

在硬件电路设计时，h8/38104 MCU 的 P90,P91 端口需要上拉电阻，因为此两端口是开漏极输出。

正确的端口处理方法见下图：



### MCU

文档适用于基于 H8SLP 内核的 h8/38104 MCU, 其他 MCU 可做参考