致尊敬的顾客

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瑞萨电子公司网址：http://www.renesas.com

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瑞萨电子公司

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7544 群

定时器 A 运行（事件计数模式）

要点

这是定时器 A 的事件计数模式的应用例子。

动作确认器件

本资料说明的应用例子适合下列单片机和使用条件：

- 单片机：7544 群

目录

1. 应用例子的说明

■要点

根据一定期间内的事件数，测定P00/CNTR1管脚的输入脉冲的频率。

■说明

从P00/CNTR1管脚输入定时器A的计数源，开始定时器A的计数。由定时器X分频f(XIN)=8MHz的时钟进行1ms的检测。根据在1ms内对事件数的计数，计算CNTR1管脚的输入脉冲的频率。

运行时钟使用f(XIN)=8MHz高速模式。

1.1 频率的测定方法

频率的测定方法例子如**图1**所示。

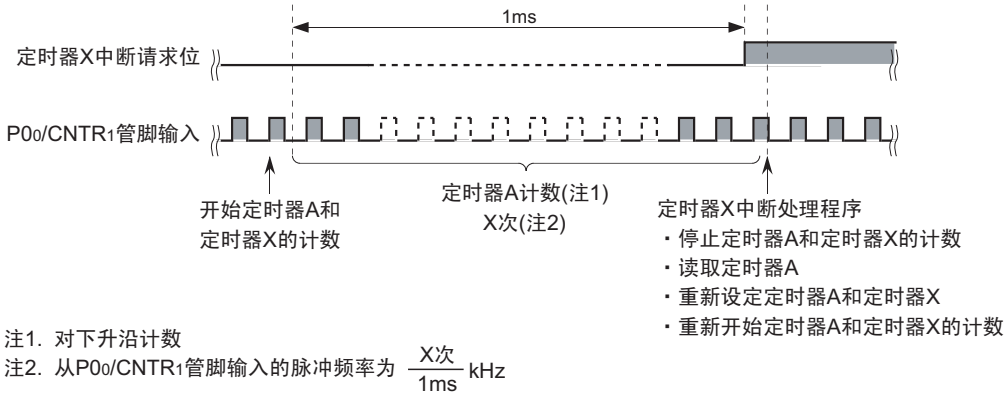
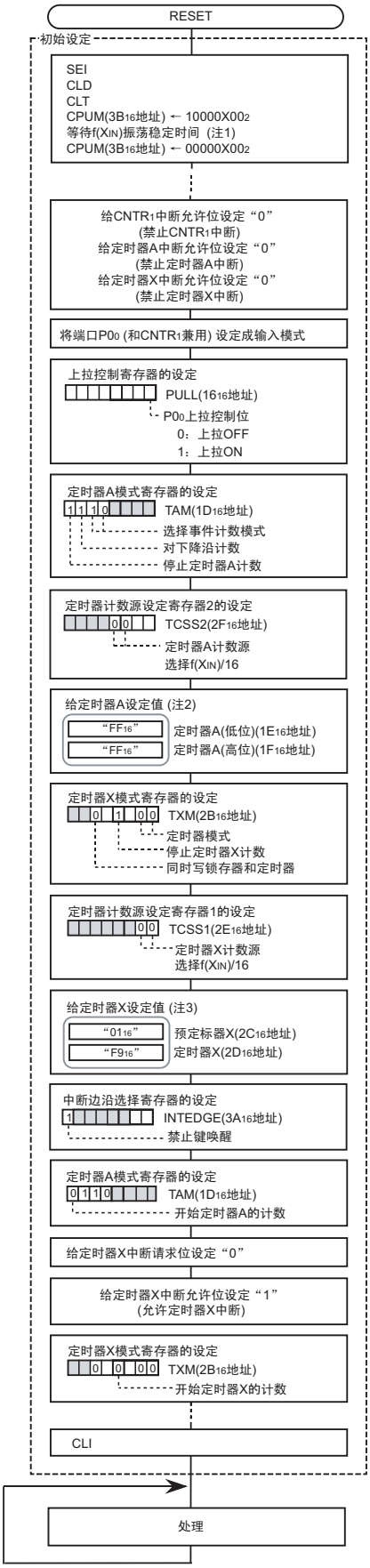


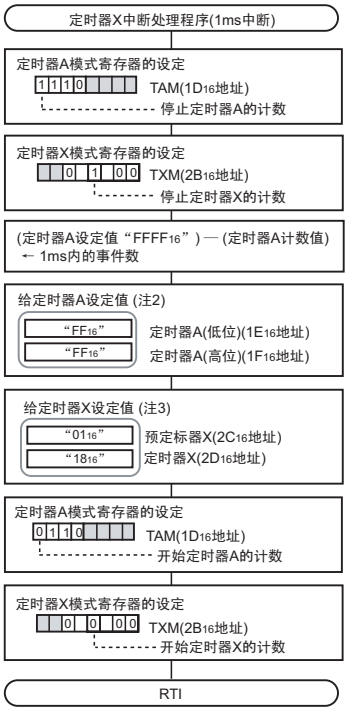
图 1　频率的测定方法例子

1.2 控制步骤例子

控制步骤例子如**图2**所示。



●X：在此应用例中，为不使用的位。
请按用法将它设定成“0”或者“1”。



注1. 有关具体的时间，请向谐振器厂家查询。
2. 在给定时器设定值时，必须以低位字节、高位字节的顺序设定。
3. 1ms = 1/8MHz × 16 × (0116 + 1) × (F916 + 1)
定时器X分频比　预定标器X设定值　定时器X设定值

图 2　控制步骤例子

2. 参考文献

数据表

7544群数据表（最新版本请从瑞萨科技网页取得）

http://www.cn.renesas.com

修订记录

Rev.	发行日	修订内容	
		页	修订处
1.00	2004.06.18	—	初版发行

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