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7544 群

定时器 X 运行（事件计数器模式）

要点

这是定时器 X 的事件计数器模式的应用例子。

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

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1. 应用例子的说明

■要点

在一定时间内（100ms）对由水流量产生的脉冲进行计数，计算该时间内的水流量。

■说明

将由水流量产生的脉冲输入到P14/CNTR0管脚，通过定时器X进行计数。在从脉冲计数开始经过100ms后产生的定时器A中断处理程序中读取定时器X的内容，计算100ms内的水流量。

运行时钟使用f(XIN)=8MHz高速模式。

1.1 外围电路例子

外围电路例子如图1所示。

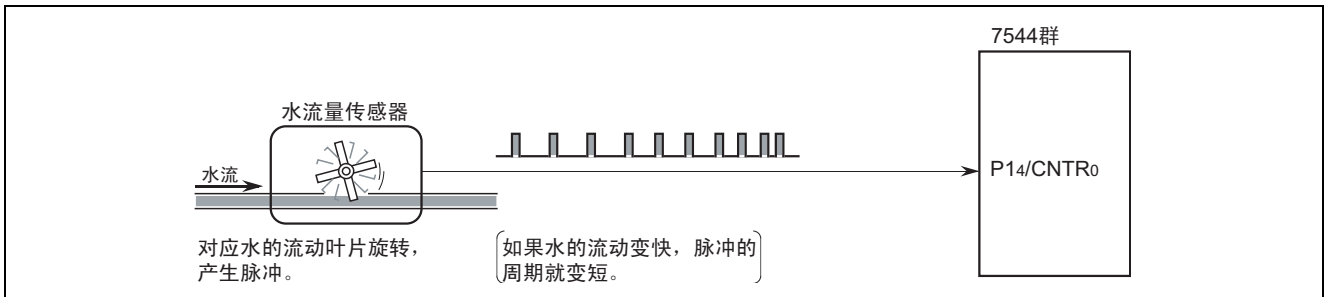


图 1 外围电路例子

1.2 水流量的测定方法

水流量的测定方法如图2所示。

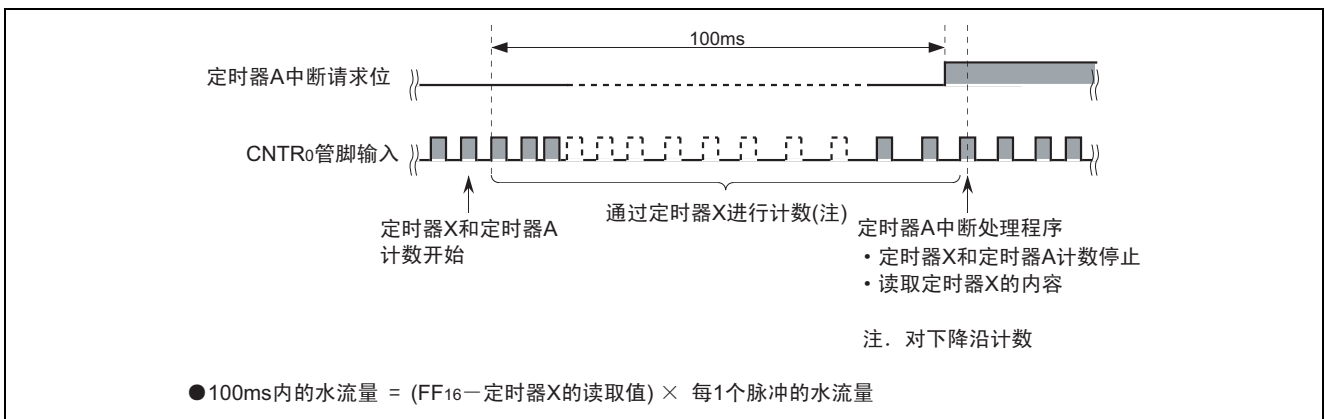


图 2 水流量的测定方法

1.3 控制步骤例子

控制步骤例子如图3所示。

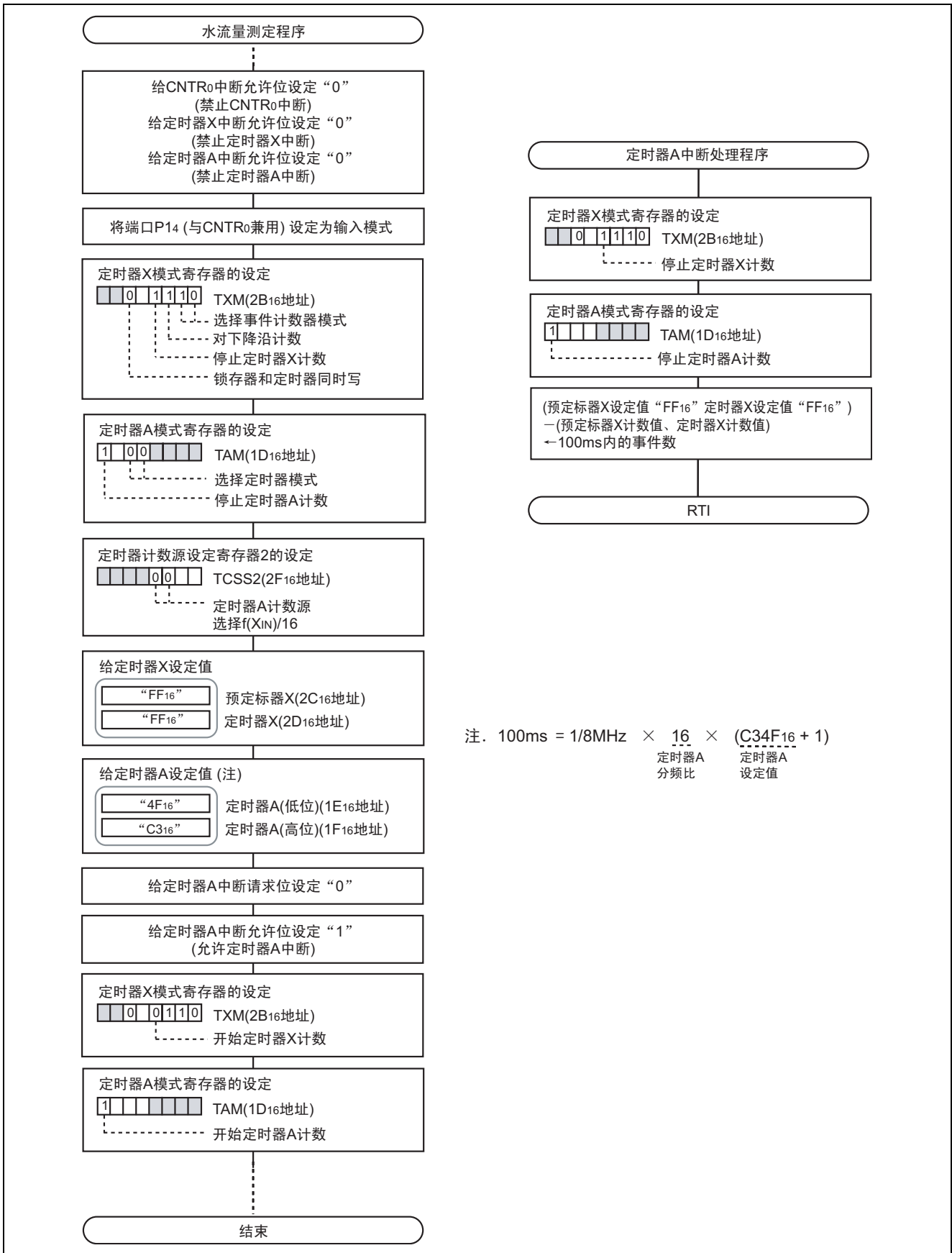


图 3 控制步骤例子

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）

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修订记录

Rev.	发行日	修订内容	
		页	修订处
1.00	2004.09.15	—	初版发行

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