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2010年4月1日
瑞萨电子公司

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7544 群
定时器 X 运行（定时器模式）

要点
这是定时器 X 的定时器模式的应用例子。

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
由定时器分频时钟，每250ms进行一次计时处理。

■ 说明
由定时器分频f(XIN)=4.19MHz（2^{22}Hz）的时钟。在定时器X中断（每250ms产生一次）处理程序中进行计时处理。
运行时钟使用f(XIN)=4.19MHz高速模式。

1.1 定时器的连接和分频比的设定
定时器的连接和分频比的设定如图1所示。

1.2 控制步骤例子
控制步骤例子如图2所示。
定时器 X 运行（定时器模式）

初始设定:
- `SEI`
- `CLD`
- `CLT`

`CPU(M[3B]地址) ← 1000000000`

等待(Xn)振荡稳定时间（注1）
`CPU(M[3B]地址) ← 000000000`

时钟设定处理

给定时器 X 中断允许位设定“0”
（禁止定时器 X 中断）

给定时器 X 中断允许位设定“1”
（允许定时器 X 中断）

图 2 控制步骤例子

注 1. 有关具体的时间，请向谐振器厂家查询。
2. 250ms ≈ 1/4.19MHz × 16 × (FF16 + 1) × (FF16 + 1)
   定时器 X
   预定标位 X
   分频比
   设定值
   设定值
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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