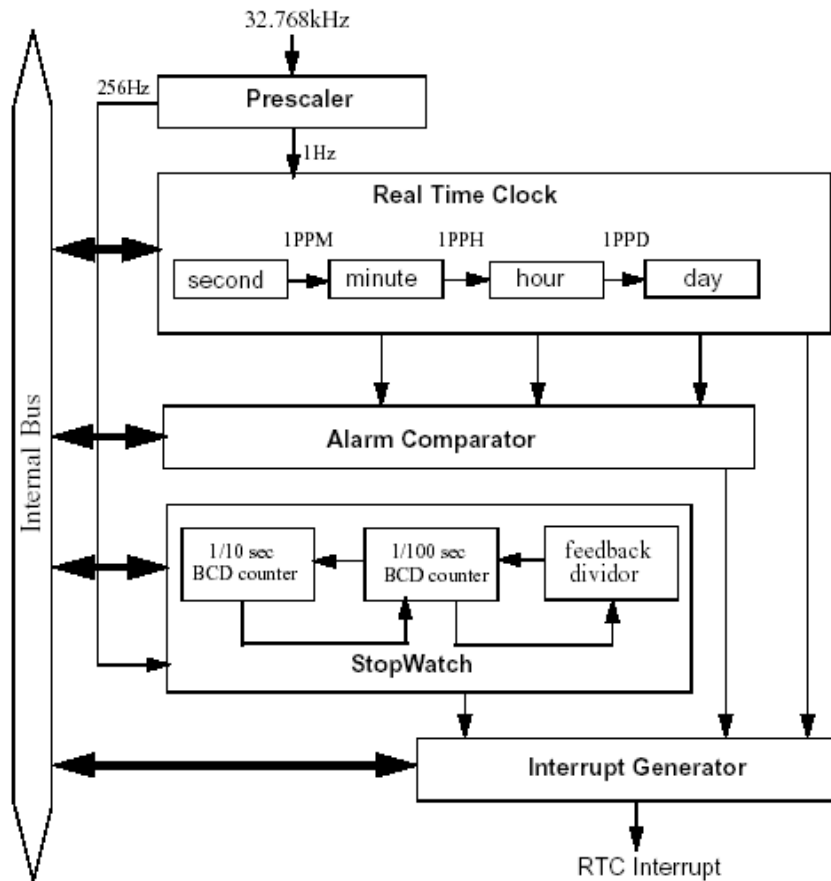# RTC

Real-time Clock Module

Summary

The real-time clock module provides a current time stamp of seconds, minutes, and hours. It operates on the low-frequency 32.768 kHz reference clock crystal. Also, it has a stopwatch function which can generate 3 period interrupts: 1 sec, 1/10 sec, and 1/100 sec.

RTC Block Diagram

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Features

- ➢ A built-in real-time clock
  - – Full clock features – seconds, minutes, hours, days
  - – Programmable daily alarm with interrupt
  - – Once-per-second, once-per-minute, once-per-hour, once-per-day interrupts
- ➢ A built-in stopwatch timer
  - – Two 4-bit BCD counters (1/100 sec units and 1/10 sec units)
  - – 1 sec, 1/10 sec, 1/100 sec period interrupts
- ➢ All the interrupts are mask able
- ➢ 32.768 kHz operation frequency

Performance and Characteristics

- ➢ Frequency (WCS)：100 MHz
- ➢ Die Size： 0.036 mm2
- ➢ Process： 0.18µm (WCS, 1.62V, 120°)

Application Examples

- ➢ Realtime System
- ➢ Clock
- ➢ Timer
- ➢ Stopwatch

Availability

- ➢ Q2, 2003

To obtain more information about the RTC or other C*Core^{TM} products, please contact the C*Core Technology Co., Ltd. by phone: 0512-68091377, email: support@china-core.com or web: http://www.china-core.com.

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