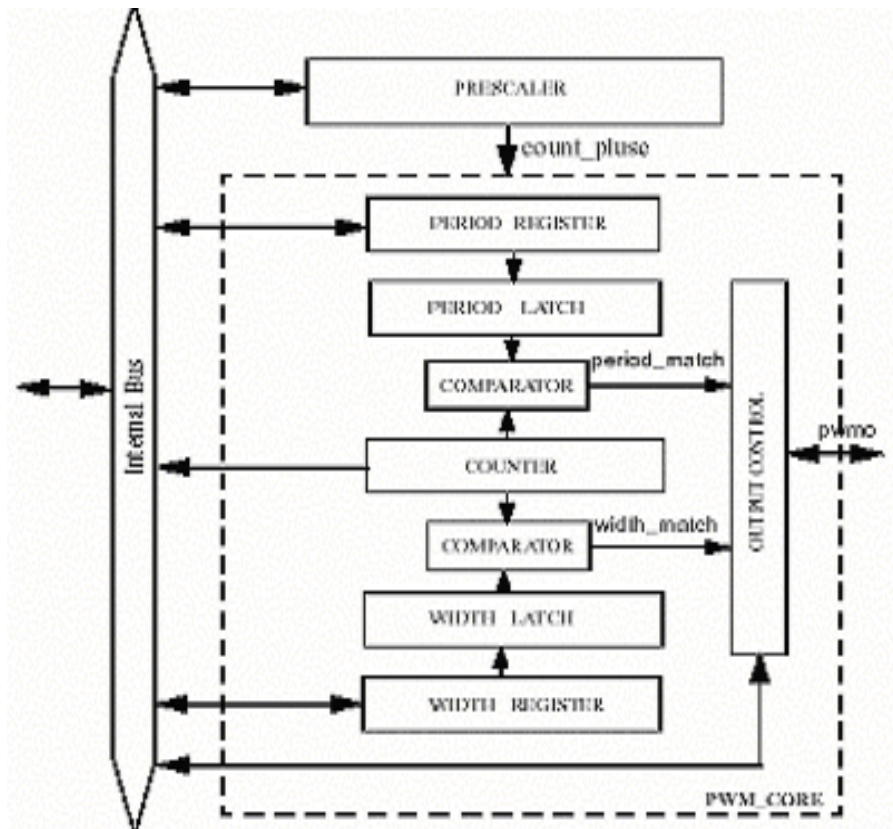# PWM Module

Summary

The PWM module consists of a simple free-running counter and two comparators. Each comparator performs a specific task when its compare register matches the count value. The period comparator causes the PWM output pin to be set and the free-running counter to be reset when the period-latch value matches the counter value. The width comparator causes the PWM output pin to be reset when the width-latch value matches the counter value. With a suitable low-pass filter, the PWM module can be used as a digital-to-analog converter.

PWM Block Diagram

Features

➢ Configurable prescaler
➢ Programmable duty cycle
➢ Single and continuous cycle modes
➢ Two kinds of interrupts
➢ Two kinds of low-power mode
➢ stop and doze mode

Performance and Characteristics

➢ Frequency (WCS)： 100 MHz
➢ Die Size：0.034 mm^2
➢ Process：0.18μm (WCS, 1.62V, 120°)

Application Examples

➢ Industrial Control
➢ D/A Conversion
➢ Sound Generation

Availability

➢ Q2, 2003

To obtain more information about the PWM *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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