

### Features

- \* Counts Seconds, Minutes, and Hours of the Day.
- \* Counts Days of the Week, Date, Month, and Year.
- \* Automatic End of Month Recognition.
- \* Automatic Leap Year Compensation.
- \* Internal Time Base and Oscillator.
- \* Time Base Input Options: 4.194304 MHz, 1.048576 MHz or 32.768 KHz.
- \* Interfaced with Software as 64 bytes RAM Locations.
- \* 14 Bytes of Clock and Control Register.
- \* 50 Bytes of General Purpose RAM.
- \* Binary or BCD Representation of time, Calendar, and Alarm.
- \* 12-or 24-Hour Clock with AM and PM in 12-Hour Mode.
- \* Daylight Savings Time Option.
- \* 3V to 6V Operation.
- \* Status Bit Indicates Data Integrity.
- \* Bus compatible Interrupt Signals (IRQ).
- \* Three Interrupts are Separately Software Maskable and Testable Time-of-Day Alarm, Once-per-Second to Once-per-Day periodic Rates from 30.5 $\mu$ s to 500ms End-of-Clock Update Cycle.
- \* Programmable Square-Wave Output Signal.
- \* Clock Output May Be Used as microprocessor Clock Input At Time Base Frequency  $\div$  1 or  $\div$  4.
- \* 40 to 200 $\mu$ W Typical Operation Power at High Frequency Time Base.

### Pin Assignment

