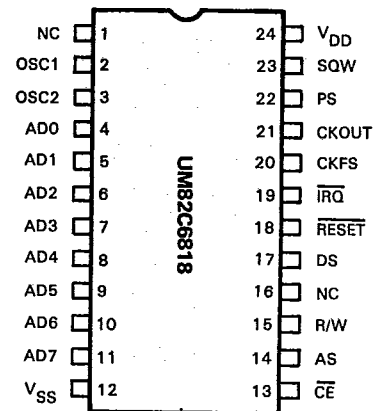


UM82C6818 Real Time Clock Plus RAM (RTC)

FEATURES

- Internal Time Base and Oscillator
- Counts Seconds, Minutes, and Hours of the Day
- Counts Days of the Week, Date, Month, and Year
- 3V to 6V Operation
- Time Base Input Options: 4.194304 MHz, 1.048576 MHz or 32.768 KHz.
- Time Base Oscillator for Parallel Resonant Crystals
- Binary or BCD Representation of Time, Calendar, and Alarm
- 12 or 24-Hour Clock with AM and PM in 12-Hour Mode
- Automatic End of Month Recognition
- Automatic Leap Year Compensation
- Multiplexed Bus for Pin Efficiency
- Interfaced with Software as 64 RAM Locations:
 - 14 Bytes of Clock and Control Registers
 - 50 Bytes of General Purpose RAM
- 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 μ s to 500 ms
 - 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 $\div 4$

PIN CONFIGURATION



UM82C8167 Microprocessor Real Time Clock (RTC)

FEATURES

- Microprocessor Compatible (8-bit Data Bus)
- Milliseconds through Month Counters
- 56 Bits of RAM with Comparator to Compare the Real Time Counter to the RAM Data
- 2 INTERRUPT OUTPUTS with 8 Possible Interrupt Signals
- POWER DOWN Input That Disables All Inputs and Outputs Except for One of the Interrupts
- Status Bit to Indicate Rollover during a Read
- 32,768 Hz Crystal Oscillator
- Four-year Calendar (No Leap Year)
- 24-hour Clock

PIN CONFIGURATION

