

## Real Time Clock Serial Clock/Calendar 8-Pin SOIC N T/R

Manufacturer: Analog Devices, Inc

Package/Case: SOP8

Clock & Timer ICs **Product Type:** 

RoHS Compliant/Lead free RoHS:

Lifecycle: Active



Images are for reference only

## **General Description**

The DS1337 serial real-time clock is a low-power clock/calendar with two programmable time-of-day alarms and a programmable square-wave output. Address and data are transferred serially through an I2C bus. The clock/calendar provides seconds, minutes, hours, day, date, month, and year information. The date at the end of the month is automatically adjusted for months with fewer than 31 days, including corrections for leap year. The clock operates in either the 24-hour or 12-hour format with AM/PM indicator. The device is fully accessible through the serial interface while VCC is between 1.8V and 5.5V. I2C operation is not guaranteed below 1.8V. Timekeeping operation is maintained with VCC as low as 1.3V.

Key Features	Application

Operating temperature range from -40°C to 85°C

425nA time keeping current and 100nA data retention current (oscillator disabled)

Completely manages all timekeeping functions

Supply voltage range from 1.8V to 5.5V

Programmable square wave output defaults to 32KHz on power-up

Oscillator stop flag

Interfaces with most microcontrollers through I2C serial interface

Active supply current of 150μA and standby current of 1.5μA

SCL clock frequency of 400KHz (fast mode) and 100KHz (standard mode)

## Consumer Electronics (Set-Top Box, VCR/Digital Recording)

Handhelds (GPS, POS Terminal, MP3 Player)

Medical (Glucometer, Medicine Dispenser)

Office Equipment (Fax/Printer, Copier)

Other (Utility Meter, Vending Machine, Thermostat, Modem)

Telecommunications (Router, Switcher, Server)

## Recommended For You

DS1244Y-70+

Analog Devices, Inc

DIP

DS1683S+

Analog Devices, Inc

SOIC-8

DS1306+

Analog Devices, Inc

DIP

DS1670E+

Analog Devices, Inc

TSSOP20

**DS1501YZ**+

Analog Devices, Inc

SOIC(W)

DS1308U-18+T

Analog Devices, Inc

UMAX-8

DS1100U-50

Analog Devices, Inc

USOP-8

DS1004C-305

Analog Devices, Inc

SOP8

DS1100LZ-20/T+MOT

Analog Devices, Inc

8-SOIC

DS1100M-25

Analog Devices, Inc

DIP8

DS1308U-3+T

Analog Devices, Inc

UMAX-8

DS1685Q-5+

Analog Devices, Inc

PLCC-28

DS1100Z-25/T&R

Analog Devices, Inc

SOP8

DS1023S-25+T

Analog Devices, Inc

SOIC(W)-16

DS1685-5+

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DIP24