

## Real Time Clock Serial 56byte Clock/Calendar 8-Pin SOIC N Tube



Images are for reference only

[Inquiry](#)

**Manufacturer:** [Maxim Integrated](#)

**Package/Case:** SOP-8

**Product Type:** Clock & Timer ICs

**RoHS:** RoHS Compliant/Lead free 

**Lifecycle:** Active

### General Description

The DS1307 serial real-time clock (RTC) is a low-power, full binary-coded decimal (BCD) clock/calendar plus 56 bytes of NV SRAM. Address and data are transferred serially through an I2C, bidirectional bus. The clock/calendar provides seconds, minutes, hours, day, date, month, and year information. The end of the month date 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 DS1307 has a built-in power-sense circuit that detects power failures and automatically switches to the backup supply. Timekeeping operation continues while the part operates from the backup supply.

### Key Features

Completely Manages All Timekeeping Functions

Programmable Square-Wave Output Signal

2

I<sup>2</sup>C Serial Interface

Optional Industrial Temperature Range: -40°C to +85°C Supports Operation in a Wide Range of Applications

### Recommended For You

#### DS1023-500

Maxim Integrated

SOP16

#### DS1243Y-120+

Maxim Integrated

DIP

#### DS1374U-33+

Maxim Integrated

MSOP10

**DS1023S-50+**

Maxim Integrated

SOIC16

**DS12887+**

Maxim Integrated

DIP

**DS1308U-33+T**

Maxim Integrated

MSOP8

**DS1337S+**

Maxim Integrated

SOP8

**DS1023S-50**

Maxim Integrated

SOP16

**DS1746-70+**

Maxim Integrated

DIP

**DS1338C-33#**

Maxim Integrated

SOP16

**DS1558Y+**

Maxim Integrated

48-LQFP

**DS1000-25**

Maxim Integrated

DIP-14

**DS1375T+T&R**

Maxim Integrated

TDFN-6

**DS1306E+T&R**

Maxim Integrated

TSSOP

**DS1000K-100**

Maxim Integrated

DIP