

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



Images are for reference only

[Inquiry](#)

Manufacturer: [Maxim Integrated](#)

Package/Case: SOP8

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

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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