

Extremely Accurate RTC with Integrated Crystal and SRAM

[DS3232SN#T&R Image](#)

Images are for reference only

Manufacturers

[Analog Devices, Inc](#)

Package/Case

SOIC-20

Product Type

Clock & Timer ICs

RoHS

Lifecycle

Please submit RFQ for DS3232SN#T&R or [Email to us: sales@ovaga.com](mailto:sales@ovaga.com) We will contact you in 12 hours.

[RFQ](#)

General Description

DS3232SN#T&R is a Real-Time Clock (RTC) IC manufactured by Maxim Integrated. Here's some information about this IC:

Features

Features:

Highly accurate timekeeping with an accuracy of ± 2 ppm over -40°C to $+85^{\circ}\text{C}$ temperature range

Low power consumption

Battery backup support with integrated 2kB SRAM

Two programmable time-of-day alarms

Digital temperature sensor with $\pm 3^{\circ}\text{C}$ accuracy

I2C interface with up to 400kHz clock frequency

Wide supply voltage range: 2.3V to 5.5V

Small package size: 16-pin SO (150mil) and TSSOP (173mil)

Applications:

Portable devices requiring accurate timekeeping

Medical equipment

Industrial controllers

Data loggers

Automotive applications

Smart energy meters

Security systems

Equivalent Parts number list:

DS3232S: same as DS3232SN, but with 300mil SOIC package

DS3232M: same as DS3232SN, but with a precision MEMS resonator and ± 5 ppm accuracy

DS3232MZ: same as DS3232M, but with a 300mil SOIC package

Application

Highly accurate timekeeping with an accuracy of ± 2 ppm over -40°C to $+85^{\circ}\text{C}$ temperature range

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Battery backup support with integrated 2kB SRAM

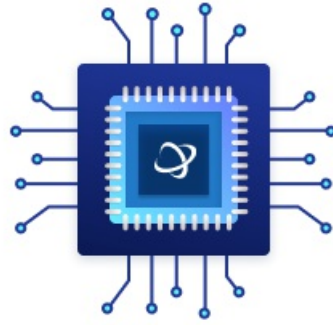
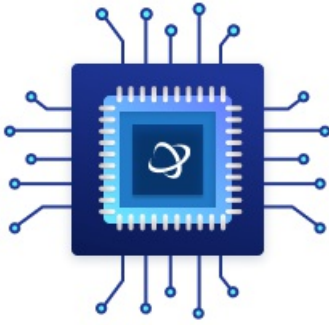
Two programmable time-of-day alarms

Digital temperature sensor with $\pm 3^{\circ}\text{C}$ accuracy

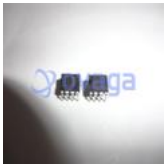
I2C interface with up to 400kHz clock frequency

Wide supply voltage range: 2.3V to 5.5V

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Related Products



[DS1307+](#)

Analog Devices, Inc
SOP8



[DS12R887-33](#)

Analog Devices, Inc
BGA48



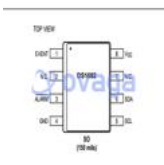
[DS3232SN#](#)

Analog Devices, Inc
SOIC-20



[DS1338Z-33+](#)

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SOIC-8



[DS1682S+T&R](#)

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SOP8



[DS1374U-33](#)

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MSOP10



[DS1338Z-33](#)

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[DS1644-120+](#)

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DIP-28