DS3231SN#T&R

Data Sheet

RTC IC, Date Time Format (Day/Date/Month/Year hh:mm:ss), I2C, 2.3 V to 5.5 V supply, SOIC-16

DS3231SN#T&R Image

Images are for reference only

Manufacturers	Analog Devices, Inc
Package/Case	SOIC-16
Product Type	Clock & Timer ICs
RoHS	Rohs
Lifecycle	

Please submit RFQ for DS3231SN#T&R or Email to us: sales@ovaga.com We will contact you in 12 hours. RFQ

General Description

DS3231SN#T&R is a real-time clock (RTC) IC manufactured by Maxim Integrated.

Features

High accuracy: The DS3231SN#T&R has an accuracy of ±2ppm (parts per million) from 0°C to +40°C.

Low power consumption: The device has a low operating current of less than 1.5µA with battery backup.

Integrated crystal oscillator: The DS3231SN#T&R includes an integrated crystal oscillator with a frequency of 32.768kHz.

I2C interface: The RTC can communicate with a microcontroller or other devices using the I2C interface.

Programmable alarms: The DS3231SN#T&R has two programmable alarms that can be set to trigger an interrupt on a specific date, time, or day of the week.

Temperature sensor: The RTC has an integrated temperature sensor with an accuracy of ±3°C.

Application

Precision timing: The DS3231SN#T&R is ideal for applications that require accurate timekeeping, such as clocks, watches, and data loggers.

Industrial automation: The RTC can be used in industrial automation systems to synchronize processes and control timing sequences.

Internet of Things (IoT): The device is commonly used in IoT applications, such as home automation and smart appliances, to provide accurate timing and scheduling.

Medical devices: The high accuracy of the DS3231SN#T&R makes it suitable for use in medical devices that require precise timing, such as insulin pumps and infusion pumps.

Related Products

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SOP8

[DS12R887-33](#)

Analog Devices, Inc

BGA48

[DS3232SN#](#)

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[DS1682S+T&R](#)

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DIP-28