

INDUSTRIAL PRODUCT DATASHEET

Grove - DS1307 RTC (Real Time Clock) for Arduino

The Grove - DS1307 RTC delivers complete real-time clock functionality with automatic power-fail detection and ultra-low power consumption for reliable timekeeping.

SKU

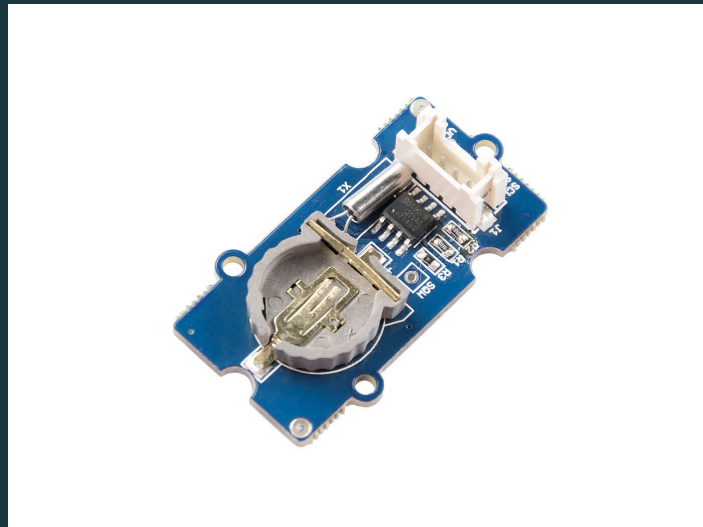
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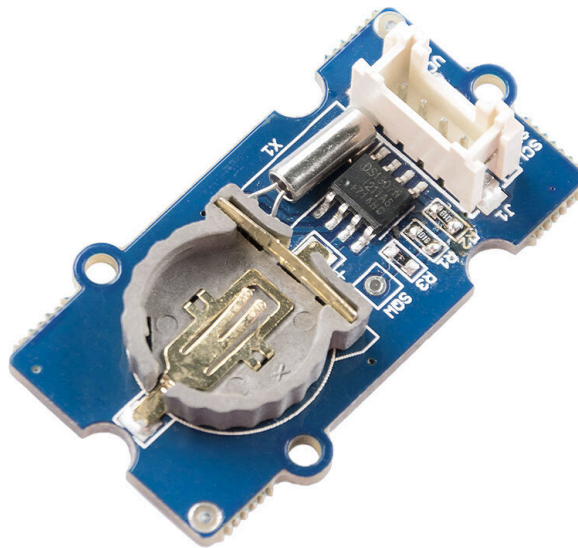
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PRICE

\$6.90(Excl. VAT)



Overview

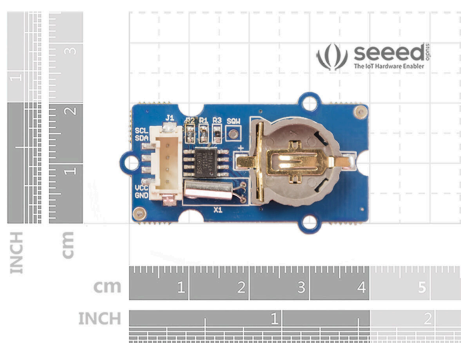
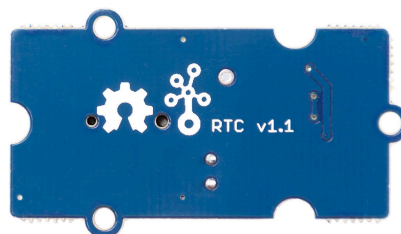
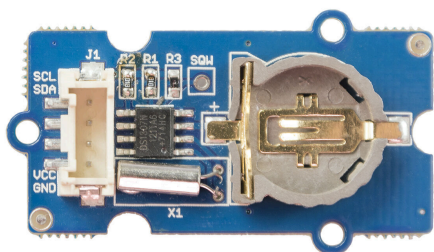


The Grove - DS1307 RTC is a Real Time Clock module for Arduino that counts seconds, minutes, hours, date, month, day of the week, and year with leap-year compensation up to 2100. It features automatic power-fail detect and switch circuitry, consuming less than 500nA in battery backup mode, and a Grove unified socket for plug-and-play versatility.

Key Features

- **Complete functionality:** Real-time clock (RTC) counts seconds, minutes, hours, date of the month, month, day of the week, and year with leap-year compensation valid up to 2100.
- **Power detection:** Automatic power-fail detect and switch circuitry.
- **Longevity:** Consumes less than 500nA in battery backup mode with oscillator running
- **Grove unified socket:** The product ensures "Plug and Play" and could be versatile for various applications.

Product Gallery



Specification

Dimensions	130mm x80mm x10mm
Weight	G.W 10g
Battery	Exclude
PCB Size	2.0cm*4.0cm
IO Structure	SCL,SDA,VCC,GND
ROHS	YES
VCC	3.3~5.5V
Logic High Level Input	2.2~VCC+0.3 V
Logic Low Level Input	-0.3~+0.8 V
Battery Voltage	2.0~3.5 V

Applications

- Real Time Clock

Part List

Grove - RTC	1
Grove Cable	1

Compliance & Logistics



HSCODE	9114909000
USHSCODE	9114905000
UPC	841454107736
EUHSCODE	8517180000
COO	CHINA

Resource Links

- <https://www.seeedstudio.com/Grove-RTC-DS1307.html>
- Grove-RTC in Eagle format
- Grove-RTC Schematic in PDF format
- Grove-RTC PCB in PDF format
- Github repository for RTC
- DS1307 Datasheet

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