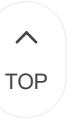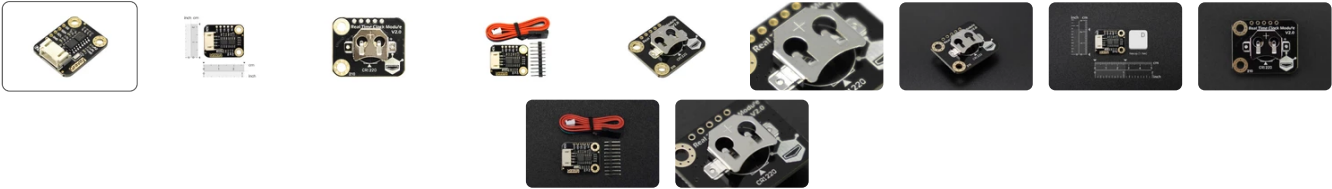# Gravity: I2C DS1307 RTC Module

$4.40

<div>- 1 +</div>

The RTC module is compact, affordable, and uses a precise crystal oscillator for minim
interface and 4KB EEPROM memory.

Purchase this product and earn 44 reward points, which are tied to VIP member:

Introduction

After several months of "Out of Stock", DS1307 RTC module has experienced a huge upgrade. It comes with a Gravity I2C interface. Its size is also reduced to fit miniaturization applications. Gravity I2C DS1307 [RTC module](#) is an easy-to-use Real Time Clock module. It is cheap and affordable in most applications such as time clock, data logger, etc. The new version DS1307 RTC module adopts a high precision crystal oscillator which reduces time error dramatically. The test conducted shows the time error is only about 1 second in 24 hours (the average time error of Mechanical Watches is about 20s). The module is powered by single cell CR1220 (service life: 3~5 years). It is smaller and keeps EEPROM 4KB ROM to record information related to alarm clocks and events. Besides, you can set the I2C address by resistance adjustment. The Gravity DS1307 RTC module uses the Gravity I2C interface and you can plug it on the DFRobot Gravity IO expansion shield directly. Cooperate with the Arduino DS1307 library developed by DFRobot, it is easy to realize functions like setting time and time display. It can be widely used in DA (Data Acquisition).

Note: According to the latest Air Transport Regulations, the batteries, magnets, and liquids transport will be very stringent, so the cell battery CR1220 will not come with the module anymore. Please buy it from the local supermarket.

Specification

Operating voltage: 5V

Interface: I2C (Gravity PH2.0-4P Interface & XH2.54 Pins)

IC Output Data: Hour, Minutes, Seconds, Week, Day, Month, Year

Leap-year Compensation

Accurate calendar up to year 2100

1Hz Output Pin

56 Bytes of Non-volatile memory available to user

4KB ROM of EEPROM

Size: 0.81inch x 1.06inch (22mm x 27mm)

Weight: 6g

Documents

[Product wiki](#)

[Schematic & Layout](#)

[DFRobot DS1307 RTC Library](#)

DFRobot DS1307 RTC Repostory

Time Synchronization with Computer

Shipping List

Gravity: I2C DS1307 RTC Module x1

Gravity-4Pin I2C/UART Cable x1

XH2.54-5P Pin Header x1

Gravity   More Gravity Projects   Gravity Projects

Gravity: I2C DS1307 RTC Module   **$4.40**   Add to Cart   Shop Now

DF

Store⌄   Community   Forum   Wiki   Blog   Learn   🔍 $USD

About Us   DFRobot Distributors   Affiliates

Warranty   Contact Us   Specials

Terms & Conditions   Site Map

Shipping

Payment

FAQ

Sign up for exclusive offers!

Your email address

Like us on