

WAVGAT Official St...

OVERVIEW

CUSTOMER REVIEWS (480)

SPECIFICATIONS

Relay Module

- 1 Channel
- 2 Channel
- 4 Channel
- 8 Channel
- 16 Channel
- others

Electronic Parts

- Resistor
- Capacitor
- Integrated circuit
- Crystals
- Connectors
- LED
- Electronic tools
- Sensor
- Switch

network card

Others

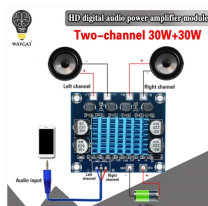
Top Selling



€ 2,61

★ 4.9

5636 Sold



€ 1,75

★ 4.8

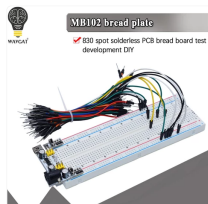
3336 Sold



€ 0,99

★ 4.9

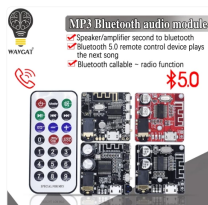
3542 Sold



€ 0,79

★ 4.9

2874 Sold



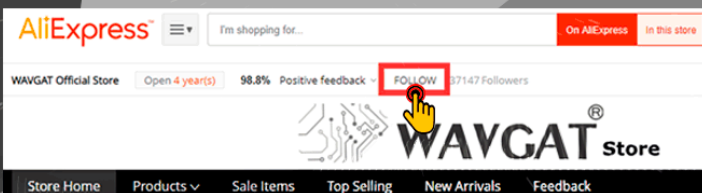
€ 1,18



WAVGAT Official Store



The collection shop,
become WAVGAT fan,
will first send orders!



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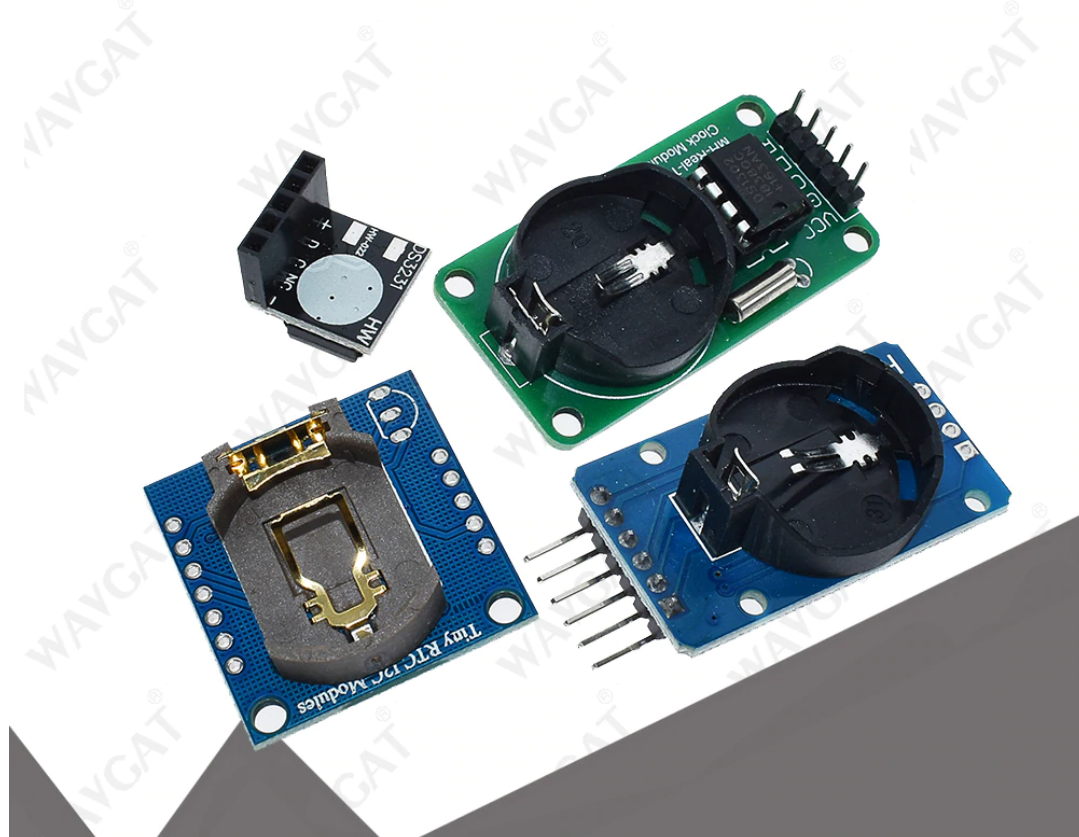
OVERVIEW

CUSTOMER REVIEWS (480)

SPECIFICATIONS

DS1302 / 1307 / 3231

Real-time clock module

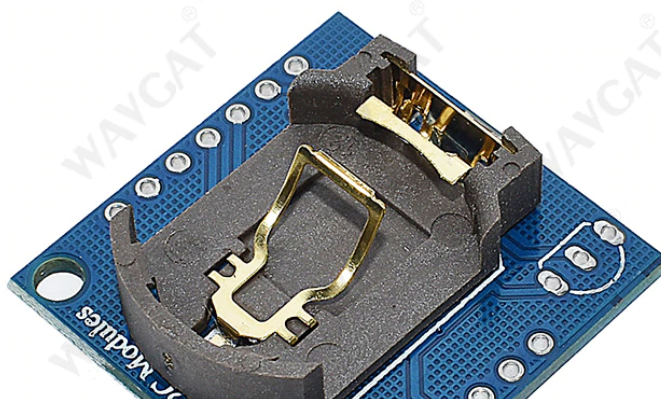


DS1302 DS3231 DS1307 Real-Time Clock Module

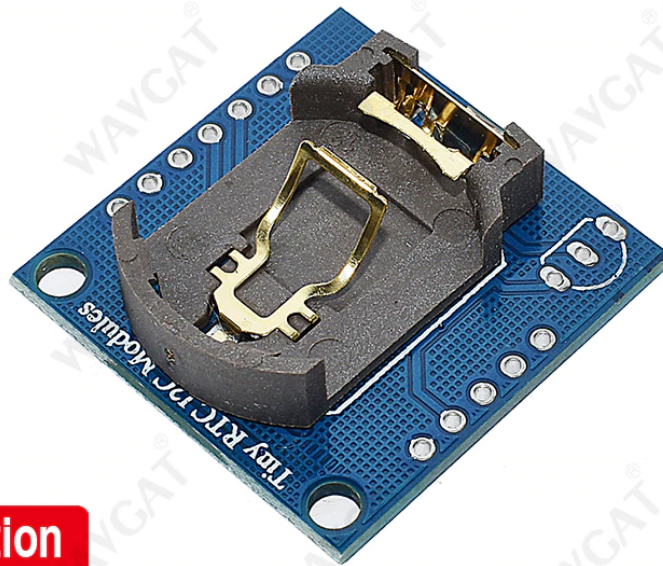
Product description

DS1307 clock module(without battery)

DS1307

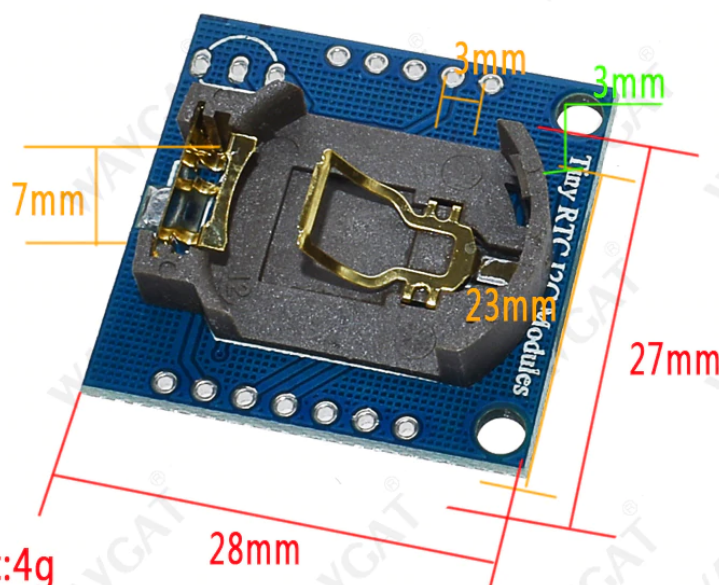


DS1307



Introduction

DS1307 is a low power, full BCD clock with 56 bytes of non-volatile RAM Calendar, fast clock chip, address and data transmission through two-line bidirectional serial bus, core the film can provide information such as seconds, minutes, and hours. The number of days in each month can be automatically adjusted. Leap year compensation function, AM / PM logo huge east clock work with 24 or 12 hour mode. The chip has a built-in current sensing circuit, with power-down detection and battery switching functions.



Weight: 4g

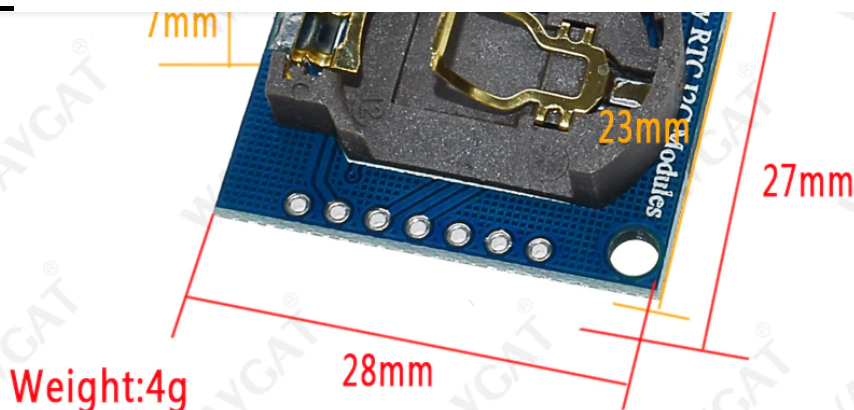
28mm

27mm

Reminder: Manual measurement, if there is any error, please forgive me! !!

1. DS130712C real-time clock chip (RTC)
2. 4C32 32K 12C EEPROM memory
3. LIR2032 lithium battery with charging circuit

Solve the problem that DS1307 can't read and write with backup battery. It can provide



Reminder: Manual measurement, if there is any error, please forgive me! !!

- 1.DS130712C real-time clock chip (RTC)
- 2.4C32 32K 12C EEPROM memory
3. LIR2032 lithium battery with charging circuit

Solve the problem that DS1307 can't read and write with backup battery. It can provide DS1307 with timing for 1 year.

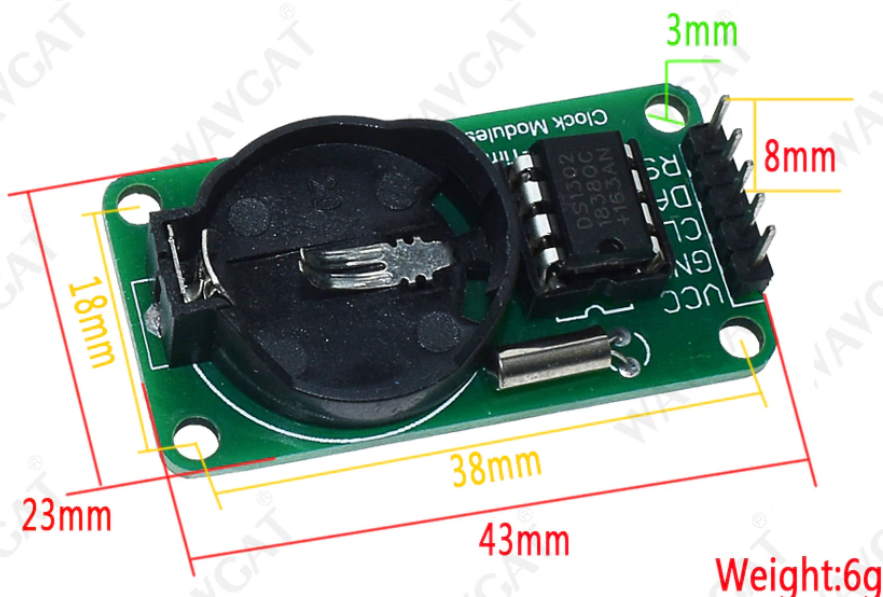
4. Compact design, 27mm * 28mm * 7mm

5. Lead out the clock pin of DS1307 to provide the clock signal for the microcontroller. Can

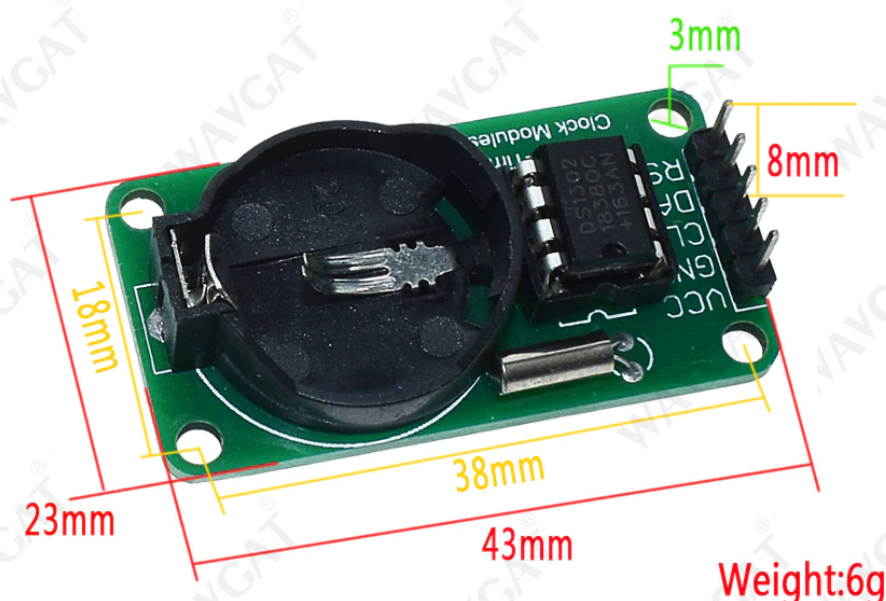
Introduction

DS 1302 is a trickle charging clock chip from DALLAS. It contains a Real-time clock / calendar and 31-byte static RAM. Line communication. Real-time clock / calendar circuit provides information on seconds, minutes, hours, day, week, month, and year. Days of the month and days of the leap year can be adjusted automatically. Clock operation can be determined by AM / PM indication set to use 24- or 12-hour format.

DS1302 and microcontroller can simply use synchronous serial only three port lines are needed for communication: (1) RST reset, (2) I / O data line, (3) SCLK serial clock. Clock / RAM read / write data in one byte or up to 31 words. Section-by-character communication. DS1302 operates with very low power consumption while maintaining data and clock information power is less than 1mW.



Reminder: Manual measurement. if there is any error, please forgive me! !!



Reminder: Manual measurement, if there is any error, please forgive me!!

Parameter

1. PCB is single panel, size: 44mm * 23mm * 8mm
2. With 4 positioning holes, diameter 3mm
3. The backup battery is a genuine Celestial CR2032, with a voltage of 3V and a current of 20mA. Theoretical data retention time is greater than 10 years!
4. 32.768KHz crystal, Japan imported crystal, matching capacitor is 6pF, size 2 * 6mm
5. DS1302 is an 8-pin in-line domestic large chip. There is an IC socket under the chip. Plug-in chip
6. The module's working voltage is compatible with 3.3V / 5V, and can be connected
7. Working temperature: 0 ° --70 °

Wiring method (Take the provided program as an example, you can connect any IO port, modify the port setting in the program Right):

VCC→+5V/3.3V GND→GND
 CLK→P02 DAT→P01
 RST→P00

Precautions:

1. VCC and GND must not be reversed to avoid burning the chip.
2. 51 MCU PO port needs to be connected with a pull-up resistor. If your microcontroller is not connected with a pull-up resistor, Can connect data cable to other ports

Performance

1. Real-time clock has the ability to calculate seconds, minutes, hours, days, weeks, months, and years before 2100 years ability, and the ability to adjust in leap years
2. 318-bit temporary data storage RAM
3. The serial I / O port method minimizes the number of pins

port, modify the port setting in the program right):

VCC→+5V/3.3V

GND→GND

CLK→P02

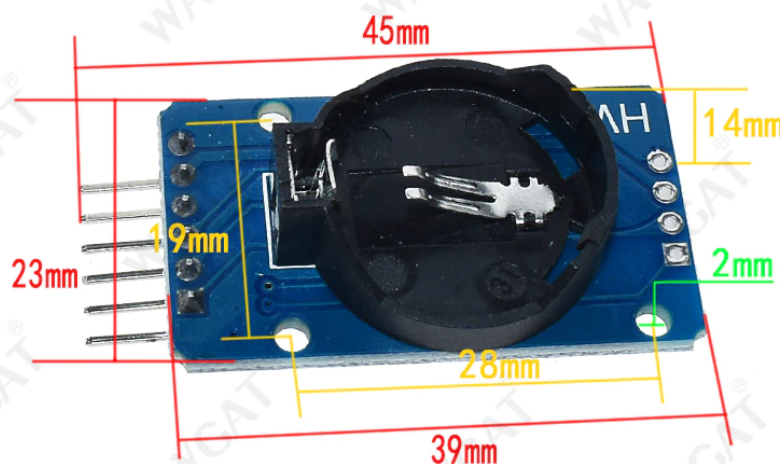
DAT→P01

RST→P00

Precautions:

RTC saves seconds, minutes, hours, days of the week, date, month and year information. Months less than 31 days the date at the end of the month will be automatically adjusted, including corrections for leap years. Clock working format can 24-hour or 12-hour format with / AM / PM indication. Provide two configurable calendars clock and a settable square wave output. Address and data are transmitted serially through the I2C bidirectional bus. Precision, temperature-compensated voltage reference and comparator circuits are used to monitor VCC status, Detects power failure, provides reset output, and automatically switches to backup power when necessary. another in addition, the RST monitor pin can be used as a manual input to generate uP reset

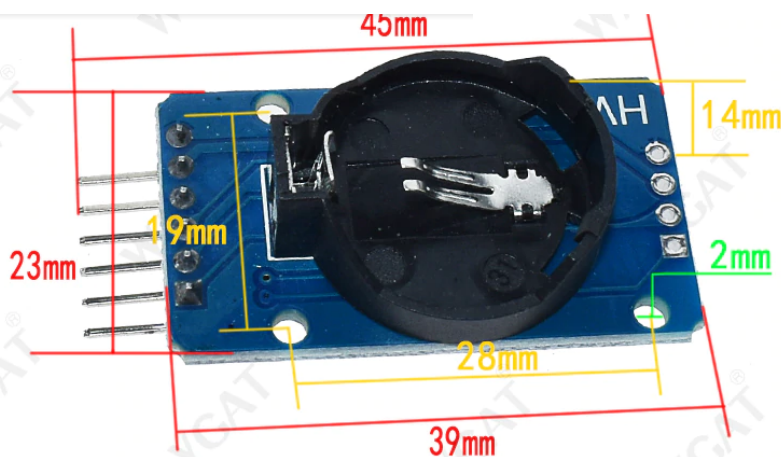
In addition to high timing accuracy, the DS3231 also has a number of other functions, which are extended the additional functions and selection range of the system host. The device integrates a very accurate digital temperature sensor, accessible via the I2C interface (just like time). This one the accuracy of the temperature sensor is $\pm 3^{\circ}\text{C}$. On-chip control circuit can realize automatic power detection and manage power switching between the main power source and the backup power source (ie, low-voltage battery). If mains power fails, the device continues to provide accurate timing and temperature without sacrificing performance. When main power is restored the on-chip reset function can be used to restart the system when power is applied or the voltage value returns within the allowable range microprocessor.



Weight:5.2g

Reminder: Manual measurement, if there is any error, please forgive me!!

Parameter



Weight: 5.2g

Reminder: Manual measurement, if there is any error, please forgive me! !!

Parameter

1. Size: 39mm (length) * 23mm (width) * 14mm (height)
2. Weight: 5.2g
3. Working voltage: 3.3-5.5V
4. Clock chip: High-precision clock chip DS3231
5. Clock accuracy: within 0-40 °C, accuracy is 2ppm, annual error is about 1 minute
6. With 2 calendar alarm clocks
7. Programmable square wave output
8. Real-time clock generates time in seconds, minutes, hours, days of the week, date, month and year, and provides leap year compensation valid until 2100

DS3231 clock module (without battery)

DS3231



Introduction



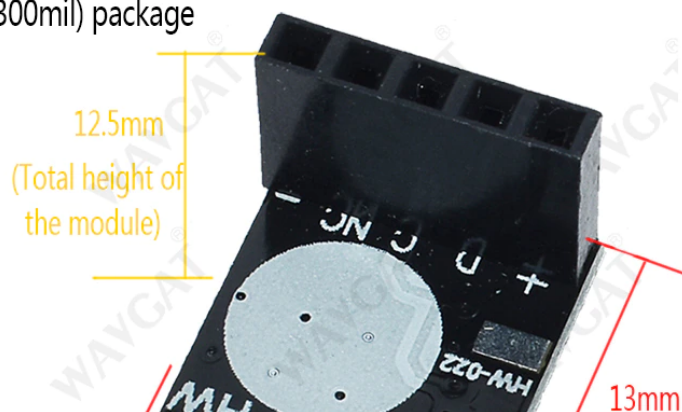
Introduction

Note that this module can also be used on Arduino motherboards.

The module itself can adapt to 3.3V and 5V systems without level conversion, which is super convenient!

Features

1. In the temperature range of -40°C to $+85^{\circ}\text{C}$, the timing accuracy is maintained at 5ppm (± 0.432 seconds / day)
2. Provide battery backup for continuous timing
3. Low power consumption
4. Device package and function compatible with DS3231
5. Complete clock calendar functions including seconds, minutes, hours, days of the week, date, month and year, and provide leap year compensation valid until 2100
6. Two calendar alarm clocks
7. 1Hz and 32.768kHz output
8. Reset output and button input
9. High-speed (400kHz) I2C serial bus
10. + 2.3V to + 5.5V supply voltage
11. Digital temperature sensor with accuracy of 3°C
12. -40°C to $+85^{\circ}\text{C}$ operating temperature range
13. 16-pin SO (300mil) package



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SPECIFICATIONS

8. Reset output and button input
9. High-speed (400kHz) I2C serial bus
10. + 2.3V to + 5.5V supply voltage
11. Digital temperature sensor with accuracy of 3 ° C
12. -40 ° C to + 85 ° C operating temperature range
13. 16-pin SO (300mil) package

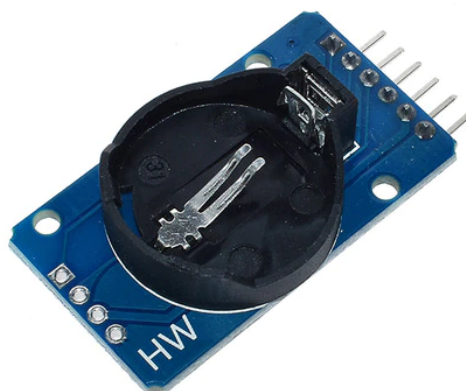


Reminder: Manual measurement, if there is any error, please forgive me !!

Product size



DS3231



DS3231 AT24C32 clock module

Reminder: Manual measurement, if there is any error, please forgive me !!

Product picture

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OVERVIEW

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SPECIFICATIONS

5 Stars

93%

4 Stars

5%

3 Stars

1%

2 Stars

0%

1 Star

1%

4.9 / 5

All Stars (470)

Photos (27)

Additional Feedback (2)

☐ Only from your country

☒ Translate to English

Sort by default

P***p

BR

Color: DS3231 Logistics: Aliexpress Direct

Muito rápido a entrega chegou na Cidade Ocidental Goiás em menos de dois meses. 02 Jul 2021 15:54



Helpful?

Yes (0)

No (1)

J***a

PL

Color: DS3231 Logistics: AliExpress Saver Shipping

very fast shipping. seller sent the package on the next day. 07 Jun 2021 03:25



Helpful?

Yes (0)

No (1)

A***r

BY

Color: mini 3231 Logistics: AliExpress Saver Shipping

Delivery three weeks in Brest. The kit matches. 19 Jul 2021 08:12



Helpful?

Yes (0)

No (0)

S***v

RU

Color: mini 3231 Logistics: AliExpress Saver Shipping

Everything is super! All sensors work, delivery fast. Thank you. Recommend! 30 Aug 2021 19:28

Helpful?

Yes (0)

No (0)

O***t

RU

Color: DS3231 Logistics: AliExpress Saver Shipping

Came in 9 days from China!!! 37 products 1 parcel 03 Aug 2021 05:16



Helpful?

Yes (0)

No (1)

A***n

CA

Color: DS3231 Logistics: AliExpress Standard Shipping

Module works great, keeps track of time, it is the best module available out there, im happy with purchase. order came in very fast. 20 Apr 2021 09:09



Helpful?

Yes (0)

No (0)

A***n

RU

Color: mini 3231 Logistics: AliExpress Saver Shipping

Заказ пришел сборной посылкой достаточно быстро, продавец отправил сразу, заказываю второй раз, в другой блок. 31 Aug 2021 09:09

Helpful?

Yes (0)

No (0)

H***

RU

Color: mini DS3231 Logistics: Cainiao Super Economy

Kirova was one and a half months away. There are no complaints about quality, everything works 26 Apr 2021 23:49



Helpful?

Yes (0)

No (1)

D***n

UA

Color: mini 3231 Logistics: AliExpress Saver Shipping

In appearance, beautiful, as I will check the performance-I will complement the review. 01 Jul 2021 00:34



Helpful?

Yes (0)

No (1)

WAVGAT Official St...



OVERVIEW

CUSTOMER REVIEWS (480)

SPECIFICATIONS

A***n

RU

Color: DS3231 **Logistics:** AliExpress Standard Shipping

The build quality is very good. Working capacity has not yet trusted. The parcel went in a heavily mint box and this is not the first time from this store. 01 Jun 2021 00:41



Helpful?

Yes (0)

No (1)

◀ 1 2 3 4 ... ▶

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OVERVIEW

CUSTOMER REVIEWS (480)

SPECIFICATIONS

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