imall

Chipsmall Limited consists of a professional team with an average of over 10 year of expertise in the distribution of electronic components. Based in Hongkong, we have already established firm and mutual-benefit business relationships with customers from, Europe, America and south Asia, supplying obsolete and hard-to-find components to meet their specific needs.

With the principle of "Quality Parts, Customers Priority, Honest Operation, and Considerate Service", our business mainly focus on the distribution of electronic components. Line cards we deal with include Microchip, ALPS, ROHM, Xilinx, Pulse, ON, Everlight and Freescale. Main products comprise IC, Modules, Potentiometer, IC Socket, Relay, Connector. Our parts cover such applications as commercial, industrial, and automotives areas.

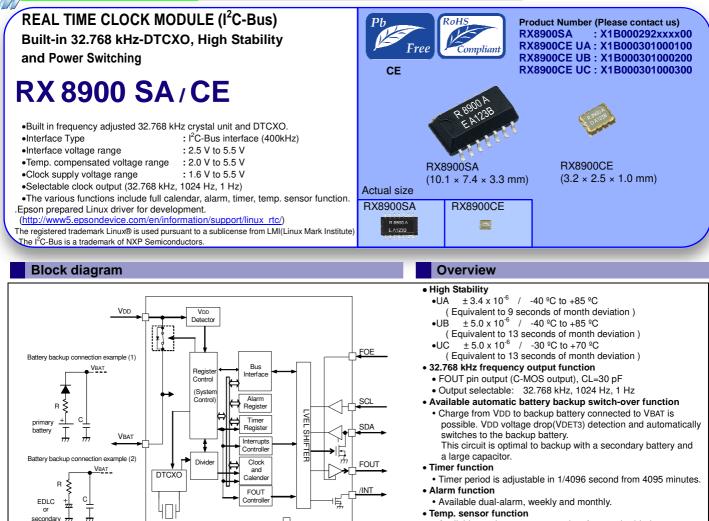
We are looking forward to setting up business relationship with you and hope to provide you with the best service and solution. Let us make a better world for our industry!



Contact us

Tel: +86-755-8981 8866 Fax: +86-755-8427 6832 Email & Skype: info@chipsmall.com Web: www.chipsmall.com Address: A1208, Overseas Decoration Building, #122 Zhenhua RD., Futian, Shenzhen, China





GND

Pin Function

•econdar

battery

Real time clock module

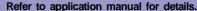
| Signal Name | I/O | Function | | | | |
|-------------|--------|--|--|--|--|--|
| T1(CE) | input | Use by the manufacture for testing. (Do not connect externally.) | | | | |
| SCL | input | Serial clock input pin. | | | | |
| FOUT | Output | The pin outputs the reference clock signal. (CMOS output) | | | | |
| VBAT | - | Battery supply. This pin has charge capability to backup battery. | | | | |
| Vdd | - | Connected to a positive power supply | | | | |
| FOE | input | The input pin for the FOUT output control. | | | | |
| / INT | Output | Interrupt output (N-ch. open drain). | | | | |
| GND | - | Connected to a ground | | | | |
| T2(VPP) | - | Use by the manufacture for testing. (Do not connect externally.) | | | | |
| SDA | I/O | Data input and output pin. | | | | |

Specifications (characteristics)

| Electrical Characteristics | | | | | | | | | | |
|----------------------------|--|---|---|----------------------|--------------------|-------------------|------|--------------------|--|--|
| Item | Symb ol | Conditions | | Min. | Тур. | Max. | Unit | | | |
| Operating voltage | VDD | Interface voltage | | 2.5 | 3.0 | 5.5 | V | | | |
| Temp. compensated Voltage | compensated Voltage VTEM Temp. compensated voltage | | roltage | 2.0 | 3.0 | 5.5 | V | | | |
| Clock supply voltage | VCLK | Internal clock | | 1.6 | 3.0 | 5.5 | V | | | |
| Operating temperature | TOPR | No condensation | | -40 | +25 | +85 ^{*1} | °C | | | |
| Stability | Δf/f | UA | Ta = -40 $^{\circ}$ C to +85 $^{\circ}$ C | | ±3.4 *2 | | | × 10 ⁻⁶ | | |
| | | UB | $Ta = -40 \ {}^{\circ}C \ to \ +85 \ {}^{\circ}C$ $Ta = -30 \ {}^{\circ}C \ to \ +70 \ {}^{\circ}C$ | | ±5.0 ^{*3} | | | | | |
| | | UC | | | | 10.0 | | | | |
| Current consumption (1) | loo1 | fSCL=0Hz, /INT=VDD, FOE =GND VDD=VBAT FOUT: OFF Temp. Compensation interval 2.0 s. | | Vdd = 5V | - | 0.72 | 1.5 | μA | | |
| Current consumption (2) | IDD2 | | | $V_{\text{DD}} = 3V$ | - | 0.70 | 1.4 | μη | | |

*1) Please contact us about +85 °C < TOPR

*2) Equivalent to 9 seconds of month deviation. *3) Equivalent to 13 seconds of month deviation



RX8900CE

2022

(Unit:mm)

/INT

T2(VPP)

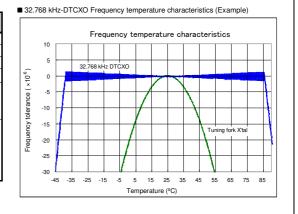
10

9 GND

8

7 SDA

] [š 6. T1(CE)



Available readout temperature data from embedded temp

FOE

VRAT

FOUT

1.

2. VDD

3

5 SCI

The metal case inside of the molding compound may be exposed on the top or bottom of this product. This purely cosmetic and does not have any effect on quality, reliability or electrical specs

sensor. (Bank.2 Add17h)

14. N.C.

13.

SDA

12. T2(VPP)

11. GND

10. / INT

9 N.C

8 N.C

Terminal connection / External dimensions

3.2±

RX8900SA

5.0

7.4±0 SOP - 14 pin

1. T1(CE) 27

2. SCL

З. FOUT

4. N.C.

5. VBAT

6 Vnn

7 FOF

* Refer to application manual for details.

SEIKO EPSON CORPORATION

PROMOTION OF ENVIRONMENTAL MANAGEMENT SYSTEM CONFORMING TO INTERNATIONAL STANDARDS

At Seiko Epson, all environmental initiatives operate under the Plan-Do-Check-Action (PDCA) cycle designed to achieve continuous improvements. The environmental management system (EMS) operates under the ISO 14001 environmental management standard.

All of our major manufacturing and non-manufacturing sites, in Japan and overseas, completed the acquisition of ISO 14001 certification.

WORKING FOR HIGH QUALITY

In order provide high quality and reliable products and services than meet customer needs,

Seiko Epson made early efforts towards obtaining ISO9000 series certification and has acquired ISO9001 for all business establishments in Japan and abroad. We have also acquired ISO/TS 16949 certification that is requested strongly by major automotive manufacturers as standard.

Explanation of the mark that are using it for the catalog

ISO 14000 is an international standard for environmental management that was established by the International Standards Organization in 1996 against the background of growing concern regarding global warming, destruction of the ozone layer, and global deforestation.

ISO/TS16949 is the international standard that added the sector-specific supplemental requirements for automotive industry based on ISO9001.

| Pb Free | ► Pb free. |
|-------------------|--|
| RoHS | Complies with EU RoHS directive. *About the products without the Pb-free mark. |
| Compliant | Contains Pb in products exempted by EU RoHS directive. (Contains Pb in sealing glass, high melting temperature type solder or other.) |
| For Automotive | ► Designed for automotive applications such as Car Multimedia, Body Electronics, Remote Keyless Entry etc. |
| Automotive Safety | Designed for automotive applications related to driving safety (Engine Control Unit, Air Bag, ESC etc). |

Notice

- This material is subject to change without notice.
- Any part of this material may not be reproduced or duplicated in any form or any means without the written permission of Seiko Epson.
 The information about applied data, circuitry, software, usage, etc. written in this material is intended for reference only. Seiko Epson does not assume any liability for the occurrence of customer damage or infringing on any patent or copyright of a third party. This material does not authorize the licensing for any patent or intellectual copyrights.
- When exporting the products or technology described in this material, you should comply with the applicable export control laws and
 regulations and follow the procedures required by such laws and regulations.
- You are requested not to use the products (and any technical information furnished, if any) for the development and/or manufacture of
 weapon of mass destruction or for other military purposes. You are also requested that you would not make the products available to
 any third party who may use the products for such prohibited purposes.
- These products are intended for general use in electronic equipment. When using them in specific applications that require extremely high reliability, such as the applications stated below, you must obtain permission from Seiko Epson in advance.
 / Space equipment (artificial satellites, rockets, etc.) / Transportation vehicles and related (automobiles, aircraft, trains, vessels, etc.) / Medical instruments to sustain life / Submarine transmitters / Power stations and related / Fire work equipment
 - and security equipment / traffic control equipment / and others requiring equivalent reliability.
- All brands or product names mentioned herein are trademarks and/or registered trademarks of their respective.