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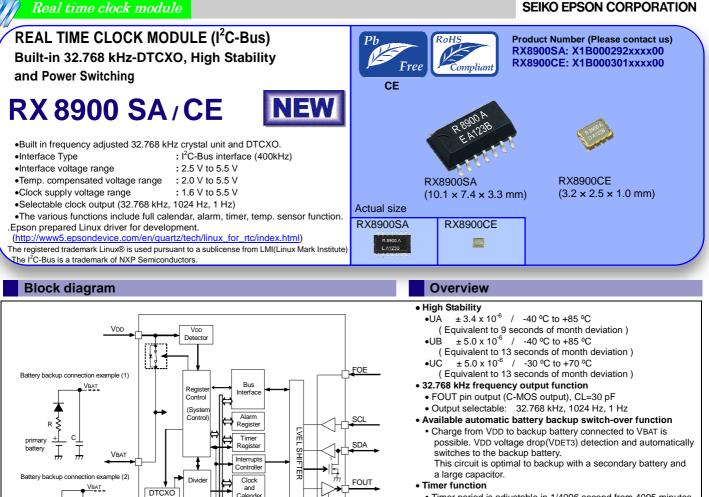
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/INT

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GND

FOUT

Controlle

Function

This pin has charge capability to backup battery

The pin outputs the reference clock signal.

Connected to a positive power supply

Interrupt output (N-ch. open drain)

Use by the manufacture for testing

(Do not connect externally.)

The input pin for the FOUT output control

Use by the manufacture for testing.

(Do not connect externally.)

Serial clock input pin

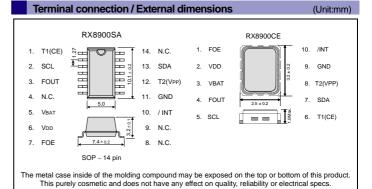
(CMOS output)

Connected to a ground

Data input and output pin

Battery supply.

- Timer period is adjustable in 1/4096 second from 4095 minutes.
 Alarm function
- Available dual-alarm, weekly and monthly.
- Temp. sensor function
 Available readout temperature data from embedded temp
 - sensor. (Bank.2_Add17h)



Specifications (characteristics)

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

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

R≹

EDLC

or

secondar

battery

+ C

Pin Function

Signal Name

T1(CE)

SCL

FOUT

VBAT

VDD

FOE

/ INT

GND

T2(VPP)

SDA

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1/0

input

input

Output

-

input

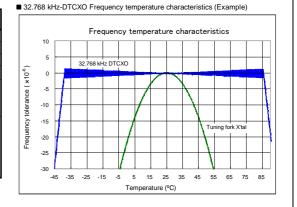
Output

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I/O

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

* Refer to application manual for details.



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.

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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).			

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