

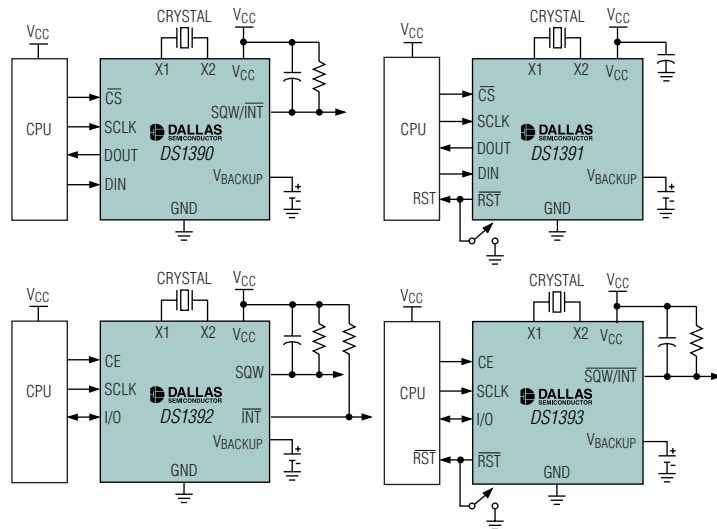
RTCs IN TINY 10-PIN μ SOP REDUCE FOOTPRINT 50% OVER 8-PIN SO

Provide All Standard Capabilities and Choice of Interface

DALLAS SEMICONDUCTOR introduces the new DS139x family of battery-backed real-time clocks (RTCs) in a 10-pin μ SOP package. Compared to the traditional 8-pin SO package, the μ SOP reduces the footprint by 50%. The DS139x clocks count hundreds of seconds, tenths of seconds, seconds, minutes, hours, day, date, month, and year while automatically compensating for leap year. Additional features include a microprocessor reset, programmable square wave, and interrupt. The customer can choose the serial interface (SPI™ or 3-wire) and operating voltage (1.8V, 3.0V, or 3.3V).

To ensure timekeeping in the absence of VCC, all the DS139x clocks can be backed up with either a battery or super cap. If the super cap is chosen, the available trickle-charge feature maintains the charge on the super cap while isolating it from the main power supply.

- ◆ Automatic Power-Fail Detect and Switch Circuitry
- ◆ Trickle-Charge Capability
- ◆ Time-of-Day Alarm
- ◆ SPI or 3-Wire Interface
- ◆ 1.8V, 3.0V, and 3.3V
- ◆ Available Pb Free
- ◆ -40°C to +85°C Temp Range



Part	Interface	Additional Features	Operating Voltage (V)	Price† (\$)
DS1390	SPI	Square wave and interrupt	1.8, 3.0, 3.3	1.25
DS1391	SPI	Reset	1.8, 3.0, 3.3	1.25
DS1392	3-wire	Square wave and interrupt	1.8, 3.0, 3.3	1.25
DS1393	3-wire	Square wave, interrupt, and reset	1.8, 3.0, 3.3	1.25

SPI is a trademark of Motorola, Inc.

†1000-up recommended resale. Prices provided are for design guidance and are FOB USA. International prices will differ due to local duties, taxes, and exchange rates. Not all packages are offered in 1k increments, and some may require minimum order quantities.



www.maxim-ic.com

FREE Real-Time Clocks Design Guide—Sent Within 24 Hours!

CALL TOLL-FREE 1-800-998-8800 (6:00 a.m.—6:00 p.m. PT)

For a Design Guide or Free Sample



Distributed by Maxim/Dallas Direct!, Arrow, Avnet Electronics Marketing, Digi-Key, and Newark.

MAXIM is a registered trademark of Maxim Integrated Products, Inc. DALLAS is a registered trademark of Dallas Semiconductor Corp.

© 2004 Maxim Integrated Products, Inc. All rights reserved.