

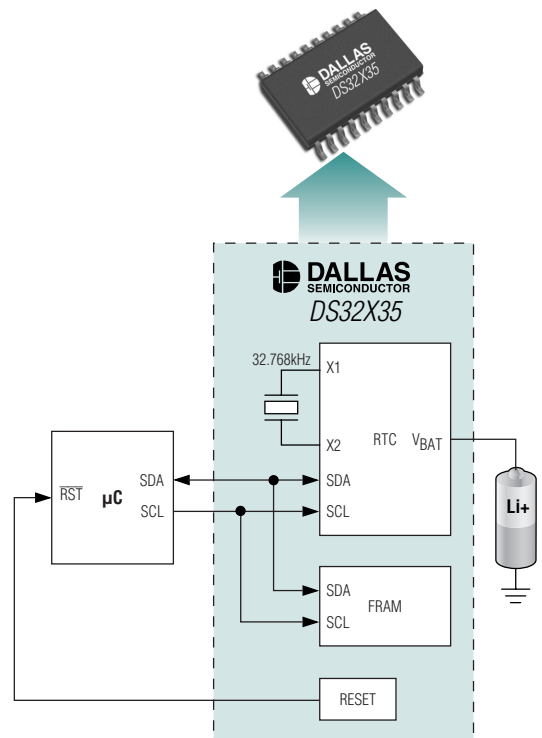
# ±2ppm ACCURATE RTC WITH FRAM SAVES 80% SPACE OVER BATTERY-BACKED SRAM

## Nonvolatile Memory Has SRAM Speed, No Write-Cycle Limits, and Data Retention Without Power

The DS32X35 accurate real-time clock (RTC) with integrated crystal and nonvolatile FRAM memory offers a space-saving alternative to battery-backed SRAM modules. Replacing the parallel-address SRAM with an I<sup>2</sup>C FRAM memory allows a reduction in pin count and eliminates the battery from the package, thus saving 80% in required PCB space.

- ◆ RTC Maintains Time Within 1min/yr from 0°C to +70°C
- ◆ Nonvolatile Memory Retains Data for 10 Years Without Power
- ◆ No Write-Cycle Limits on Memory
- ◆ Automatic RTC Power Switching
- ◆ 3.3V Operation
- ◆ ±3°C Accurate Temp Sensor
- ◆ Integrated 32.768kHz Crystal
- ◆ 300 mil, 20-Pin SO Package

Part	Temp Range (°C)		Memory (bits)	Package	Price <sup>†</sup> (\$)
	0 to +70	-40 to +85			
DS32B35	✓		2k x 8	20-SO	4.00
DS32B35N		✓	2k x 8		4.60
DS32C35	✓		8k x 8		4.80
DS32C35N		✓	8k x 8		5.52



<sup>†</sup>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/DS32x35rtc](http://www.maxim-ic.com/DS32x35rtc)

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