



Seiko Epson Corporation introduces the industry's lowest power real-time clock (RTC) module. With typical current consumption of just 130 nA, Epson's RX6110SA current consumption level is 35% lower than that of the RX-8571SA, Epson's existing lowest-current RTC product.

Epson's RX6110SA enables the reduction of hazardous substances by allowing electronic device makers to replace batteries with **supercapacitors**. With a 0.33F supercapacitor, Epson's RX6110SA can operate for 16 weeks. Epson's RX6110SA achieves an operating current one half of leading competitors by employing special low-power circuit design techniques and Epson's unique low-leakage IC process technology. Compared to microcontroller implementations, Epson's RX6110SA can operate eight times longer.

The RX6110SA also includes a diode-less power-supply switching circuit which allows it to operate and charge from power supplies ranging from 5 V down to as low as 1.1V. By operating at a lower voltage than competition, Epson's RX6110SA further extends battery life.

In addition to keeping time, real-time clocks are used to log power-loss events and save system state when power is lost. Epson's RX6110SA offers a rich feature set to support these needs, including a 32.768 kHz output, alarms and timers, and RAM. The RX6110SA supports both SPI-bus and I2C-bus interfaces.

[Read more about SuperCaps from Cap-XX here:](#)

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