

Epson RX-8564 Real Time Clock

How2 Info Sheet

Epson RX-8564 RTC Power Backup with EnerChip™ Battery



Applications

EnerChips are an attractive RTC backup alternative to batteries or supercapacitors, especially when the finished product has limited PCB space, size constraints or needs to be sealed or installed in a hard-to-reach location. They are also excellent if you have any of these design requirements:

- · Battery must be RoHS and WEEE compliant
- Product can be discarded without removing battery
- Product must have battery installed during shipping via air
- · Battery must be rechargeable to support a lifetime of power outages
- · Battery must provide backup power for several hours during a main power failure

RX-8564	<u>CBC3105</u>		<u>CBC3112</u>		<u>CBC3150</u>	
Iq (nA at 3V)	Back up time (hrs)	Package Size (mm x mm)	Back up time (hrs)	Package Size (mm x mm)	Back up time (hrs)	Package Size (mm x mm)
275	18	4 x 5	44	7 x 7	182	9 x 9

Advantages of Combining These Two Parts

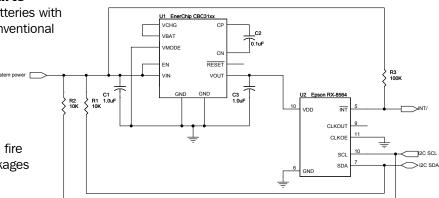
Cymbet EnerChips are solid-state, rechargeable batteries with the following characteristics when compared to conventional rechargeable batteries:

- · Low self-discharge
- · Are solder reflow tolerant
- Flat discharge voltage profile
- High charge/discharge cycle life
- Simple voltage controlled charging
- · Have no flammable solvents to leak or catch fire
- Are offered in low profile surface mount packages

Documentation

- Cymbet Application Note: AN-1042
- Cymbet Evaluation Kits: CBC-EVAL-05B, CBC-EVAL-06
- Data Sheets: Epson RX-8564, CBC3105, CBC3112, CBC3150
- All Cymbet Documents and Downloads: http://www.cymbet.com/products/datasheets-downloads.php

Evaluation Kits



Doc MD-72-0XX Rev A