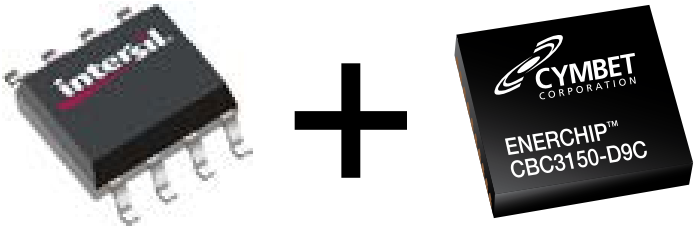
Intersil ISL1208IU8Z Power Backup with EnerChip™ Battery



Applications

EnerChips are the ideal RTC/calendar 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 an excellent choice if you have any of these design requirements:

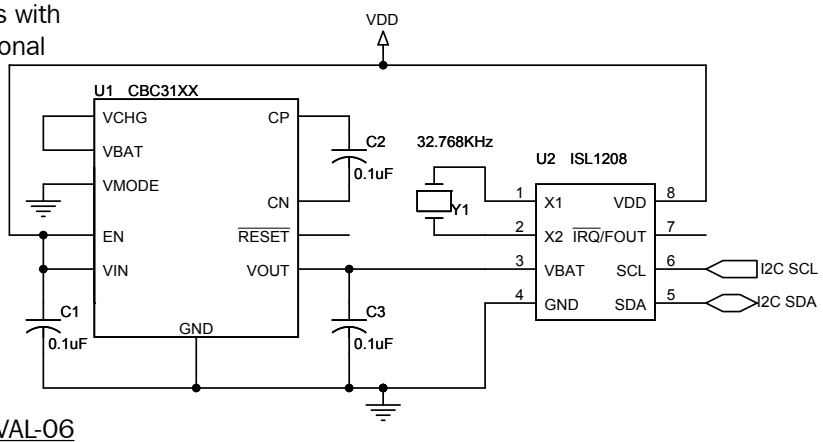
- Battery must be RoHS and WEEE compliant
- Product can be discarded without removing battery
- Product must have battery installed during shipping via air
- Battery must be rechargeable to support a lifetime of power outages
- Battery must provide backup power for several hours during a main power failure

ISL 1208IU8Z	CBC3105		CBC3112		CBC3150	
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)
400	13	4 x 5	30	7 x 7	125	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

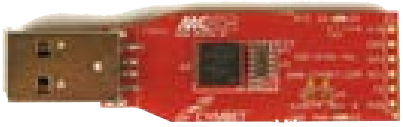


Documentation

- **Cymbet Application Note:** AN-1045
- **Cymbet Evaluation Kits:** CBC-EVAL-05B, CBC-EVAL-06
- **Data Sheets:** Intersil ISL1208IU8Z, CBC3105, CBC3112, CBC3150
- **All Cymbet Documents and Downloads:** http://www.cymbet.com/products/datasheets-downloads.php

Evaluation Kits

Cymbet EnerChip CBC-EVAL-05B



Cymbet EnerChip RTC CBC-EVAL-06