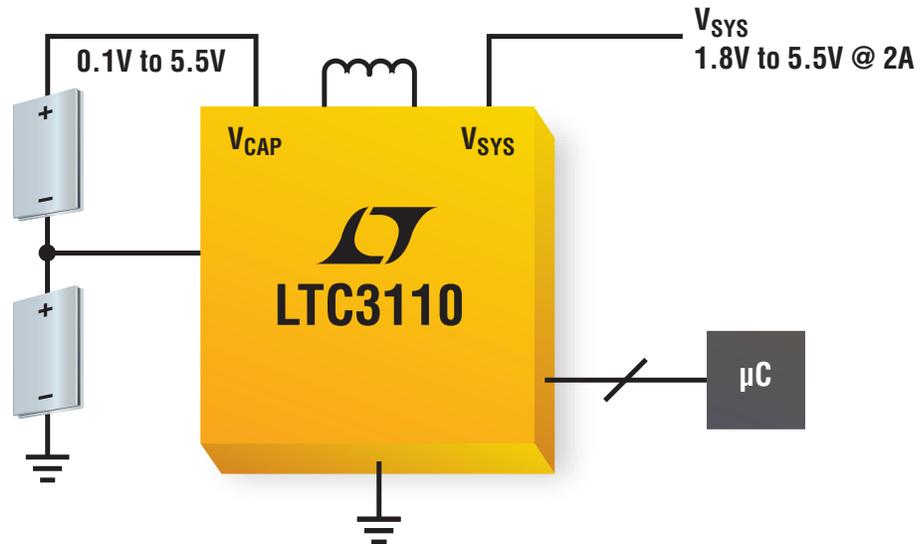


# Supercap Backup Hard Problem: Easy Solution



## 2A Bi-Directional Buck-Boost Supercap Backup Solution

The LTC<sup>®</sup>3110 does all the hard stuff with its simple yet full featured solution, providing essential systems with last gasp power backup if the main supply rail should fail. When the system rail is powered, it charges and balances two supercaps for backup energy storage. However, if system power fails, the LTC3110 reverses direction, immediately using the stored energy to power the downstream load down to 0.1V capacitor voltage. The LTC3110 single inductor bi-directional buck-boost converter is capable of delivering up to 2A of current to a system rail from 1.8V to 5.5V.

### ▼ Power Backup Product Family

Part Number	I <sub>CHARGE</sub>	V <sub>IN</sub>	V <sub>OUT</sub>	Topology
LTC3225	0.15A	2.8 to 5.5V	4.8 to 5.3V	Boost Charge Pump Cap Charger
LTC3226	0.33A	2.5 to 5.5V	2.5 to 5.5V	Boost Charge Pump + PowerPath™ Manager
LTC3625	1A	2.7 to 5.5V	4 to 5.3V	Buck + Boost Cap Charger
LTC3355	1A	3.0 to 20V	2.7 to 5.5V	Buck Cap Charger + Boost Backup
LTC3110	2A	0.1 to 5.5V	1.8 to 5.5V	Bi-Dir Buck-Boost + PowerPath Manager
LTC3643*	2A	3V to 17V	Up to 40V	Bi-Dir Boost Charger/Buck Backup
LTC4040	2.5A	3.5 to 5.5V	3.5 to 5V	Buck Battery Charger + Boost Backup
LTC3128	3A	1.7 to 5.5V	1.8 to 5.5V	Buck-Boost Cap Charger
LTC4425	3A**	1.7 to 5.5V	2.7 to 5.5V	Linear/Ideal Diode Cap Charger
LTC3350	10A+	4.5 to 35V	4.0 to 35V	Bi-Dir Controller + Monitor + PowerPath

\*Future Product  
\*\*Limited by Thermals

### ▼ Info & Free Samples

[www.linear.com/BackupPower](http://www.linear.com/BackupPower)  
1-800-4-LINEAR

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