



# Power-Saving Solutions That Make a Difference

Micron's Aspen Memory® Technology

## Data Center Power Savings

Technology providers and their customers are concerned with rising energy costs, especially in data centers where memory accounts for such a high percentage of a blade's total power consumption. With this in mind, Micron developed the Aspen Memory® product line, a growing family of energy-efficient memory solutions. Our 1.35V DDR3 and 1.5V DDR2 reduced chip count (RCC) FBDIMMs reduce server power consumption and slash cooling costs.

When the 1.5V modules, for example, are implemented into data center server systems in place of 1.8V solutions, the reduced voltage cuts power consumption by 16% outright. And if the 1.5V parts are manufactured on true 1.5V process technology, like ours are, you can cut even more—15–20% more than you could with someone else's 1.5V solution.

The reduced chip count also factors into overall savings. RCC FBDIMMs deliver the same performance and memory capacity with half the number of components. And because there are fewer modules, less heat is generated so cooling costs are lower.

Use our Data Center Power Calculator and calculate how much you could save: [www.serverenergysaver.com](http://www.serverenergysaver.com).

## Low-Voltage FBDIMMs for Servers

If you're searching for ways to reduce power consumption, consider the added savings you can achieve with low-voltage memory—and more specifically, Micron's energy-efficient Aspen Memory. We have the industry's first low-voltage DDR3 and the highest-density, lowest-voltage DDR2 modules. See our Web site for part specifications and ordering information.

[micron.com](http://micron.com)

*Products are warranted only to meet Micron's production data sheet specifications. Products and specifications are subject to change without notice.*

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## 3 Ways Aspen Memory Enables Energy Savings

- 1. Maximized Energy Savings**  
Uses half the number of components, but still provides the same performance and memory capacity.
- 2. Enhanced Thermal Performance**  
Reduces the heat generated by servers, which reduces the power needed to cool large data centers.
- 3. Reduced Power Consumption**  
Reduces standard DDR2 voltage from 1.8V to 1.5V and DDR3 voltage from 1.5V to 1.35V, which in turn lowers the power consumption required for applications like data center servers, laptops, and mobile phones.

