

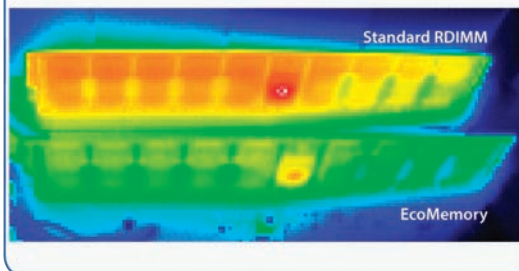
EcoMemory™

EcoMemory is power efficient memory for data centers developed by SMART. It aids in lowering energy costs, reducing thermal constraints, and increasing reliability for data center server clusters. EcoMemory can provide these benefits because it directly integrates the advanced PowerSage® power management chip onto the memory module.

Only six to 12% of the power consumed by servers in an average data center is used to perform calculations. The rest is wasted on idle servers in standby mode. EcoMemory is a direct replacement for standard RDIMM memory modules. No special BIOS or drivers are required.

Thermal Image of Two 16GB DIMMS

EcoMemory Runs 10°C Cooler



Key Features & Specs

- Data Center Power & Cost Savings
 - 10-20% power savings for DDR4 RDIMMs
 - 20-40% power savings for DDR3 RDIMMs
- Thermal Reduction in Server Racks
- Increased Reliability over Standard RDIMMs
- Increased System Performance by Reducing CPU Throttling
- Drop-In Replacement for DDR4 and DDR3 RDIMMs
- Evaluation Kit



EcoMemory Adapter

Another option is the EcoMemory Adapter, which contains all the power saving circuitry of EcoMemory. The adapter turns your current standard RDIMM into an EcoMemory module.



EcoMemory

DDR4 EcoMemory Ordering Information

288-PIN - DDR4 EcoRDIMM						
SMART Part Number	Density	Height (mm)	Module Config	Device Config	Speed	Voltage
SE4097RD420472SB	32GB	31.25	4G x72	2G x4	2400 MT/s	1.2V
SE2047RD410472SE	16GB	31.25	2G x72	1G x4	2400 MT/s	1.2V
SE2047RD410451SE	16GB	31.25	2G x72	1G x4	2133 MT/s	1.2V

DDR3 EcoMemory Ordering Information

240-PIN - DDR3 EcoRDIMM						
SMART Part Number	Density	Height (mm)	Module Config	Device Config	Speed	Voltage
SE2047RV310416HD	16GB	30.00	2G x72	1G x4	1600 MT/s	1.35V

EcoMemory Adapters

SMART Part Number	Description
SH-4-DM-ECOADAPTER	DDR4 EcoMemory DIMM Adapter
SH-3-DM-ECOADAPTER	DDR3 EcoMemory DIMM Adapter

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