

# PowerGEM®

## Supercapacitor Energy Modules

### KEY FEATURES

- Battery-free backup power
- Continuous health monitoring & tracking
- Auto charge/discharge management
- RoHS/REACH compliant
- UL/CSA/CB/CE certifications
- Up to 5-year operating life



PowerGEM® is a Green Energy Module providing reliable back-up power for NVDIMM-N nonvolatile memory modules. Based on supercapacitor technology, PowerGEM modules offer a safer and more environmentally-friendly alternative to batteries. PowerGEMs also conduct real-time in-system health monitoring and tracking for a highly reliable solution that will operate over the system's life without conditioning or replacement.

### BENEFITS VS BATTERIES

- Fast charge time (minutes vs hours)
- No conditioning/learn cycles or servicing
- Long operating life
- Long shelf life
- High temperature operation
- Reliable health monitoring
- Environmentally friendly
- No shipping restrictions
- No safety issues
- Lower Total Cost of Ownership (TOC)

## SPECIFICATIONS

Cell Technology	Supercapacitor (EDLC and hybrid)
Input Voltage	12V
Energy Rating	Up to 1800J @ EOL (varies by product)
Estimated Lifetime	Up to 5 years @ 50°C
Health Monitoring	Real-time, in-system
Cap Measurement Downtime	None
Environmental	RoHS/REACH compliant
Safety Certification	UL/cUL/CB/CE

## ORDER INFORMATION

Product Name	Part Number	Description	NVDIMM Compatibility
Diamond4	AGIGA9811-001JCB	2.5" drive form factor, EDLC, 750mm cable included	Komodo1-16
	AGIGA9811-001JCC	2.5" drive form factor, EDLC, 355mm cable included	Komodo1-16
	AGIGA9811-001JCF	2.5" drive form factor, EDLC, 650mm cable included	Komodo1-16
Pearl2	AGIGA9832-001JCA	Intel Half-Width Form Factor (HWFF), hybrid supercap	Komodo1-16
Amber4X	AGIGA9834-003JCA	No case (53mmx84mm), 4-port, hybrid supercap	Komodo1-16 (4x) or Komodo1-32 (2x)
Amber4Xd	AGIGA9834-103JCA	2.5" drive form factor, 4-port, hybrid supercap	Komodo1-16 (4x) or Komodo1-32 (2x)
Amber4Xe	AGIGA9834-203JCA	HHHL PCIe form factor, 4-port, hybrid supercap	Komodo1-16 (4x) or Komodo1-32 (2x)
Amber4Xc	AGIGA9834-033JCA	No case (53mmx84mm), central power port, hybrid supercap	Komodo1-16 (4x) or Komodo1-32 (2x)