



# AGIGARAM®

## DDR4 Non-Volatile DIMM

### PRODUCT FEATURES

#### NVDIMM-N type per JEDEC definition

- Highly reliable non-volatile memory solution
- No wear or endurance issues
- DRAM, Flash, Controller and Power Management integrated in a single module
- Standard JEDEC Registered Dual Inline Memory Module (RDIMM) 288-pin connector
- Standard DDR4 functionality and operation
- Supports DRAM ECC error detection and correction by host memory controller
- Can be powered by external PowerGEM or through central power (12V) during backup
- 31.25mm DIMM height

#### PowerGEM® backup energy module

- Highly reliable, battery-free power source
- Provides power during data backup
- Fast charge time
- 5-year operating life @ 55°C
- Low Total Cost of Ownership (TCO), no maintenance required over the product life
- RoHS, REACH and UL/CSA/CB compliant, no hazardous material issues

#### System-Level Features

- In-system health monitoring
- Automatic history tracking: tracks critical internal system parameters
- Online firmware upgrade support
- Supports JEDEC Byte Addressable Energy Backed firmware specification

### PERFORMANCE + PERSISTENCE

AGIGARAM represents a new class of nonvolatile memory developed to meet the need for higher-performance persistent memory for enterprise-class storage and server applications. By combining industry-standard DRAM and NAND Flash technology, AGIGARAM provides the low latency and nearly infinite endurance of DRAM, along with the non-volatility of Flash. The AGIGARAM DDR4 Non-Volatile DIMM (NVDIMM) is designed to comply with the JEDEC-defined NVDMM-N type.



**AGIGARAM 8GB DDR4 NVDIMM-N w/  
PowerGEM supercap module in 2.5" drive form factor**

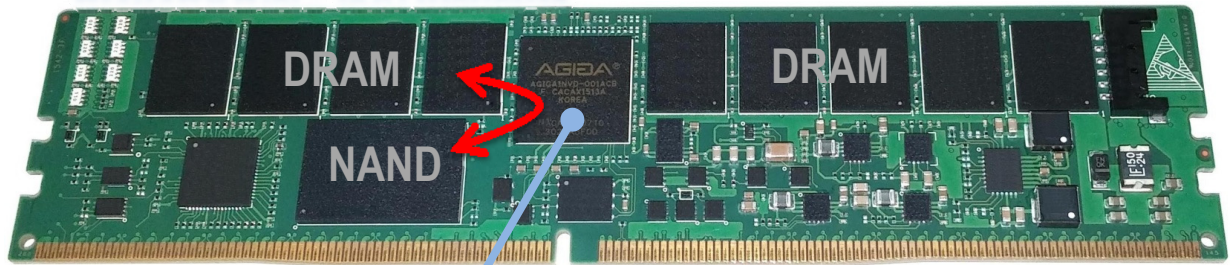
### TARGET APPLICATIONS

- Non-volatile write cache
- In-memory database
- Ultra-fast storage tiering
- Metadata storage
- Hash table look-up & coherency
- High-speed messaging
- Higher VM concentration
- Whole system persistence



[www.agigatech.com](http://www.agigatech.com)

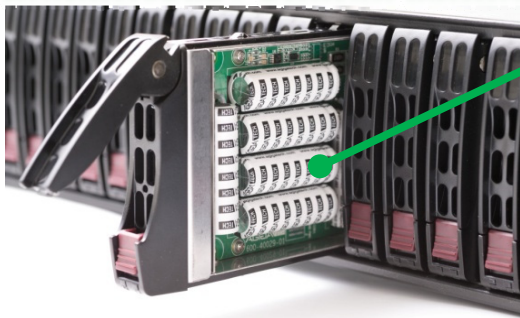
## AGIGARAM® NVDIMM-N



### AgigA NVDIMM Controller

- DRAM addressed as persistent memory during runtime
- DRAM data backed-up to NAND on power loss or system crash, restored on boot
- Integrated NAND & DRAM controllers
- Realtime health monitoring & system mgmt
- Support for Legacy & JEDEC protocols

### PowerGEM® Energy Module



### Supercap-based Energy Module

- Provides power to NVDIMM during backup
- Real-time health monitoring
- Highly reliable, zero maintenance
- Fast charge time
- REACH/RoHS /UL/CSA/CB compliant
- Multiple form factors available

Product Type	Part Number	Description
AGIGARAM NVDIMM-N	AGIGA8801-800CCA	8GB DDR4-2133, SRx4, Legacy Firmware
	AGIGA8802-800CCA	8GB DDR4-2133, SRx4, JEDEC Firmware
	AGIGA8803-160BCA	16GB DDR4-2400, SRx4, JEDEC Firmware
PowerGEM Energy Module	AGIGA9801-004JCA	Small fanbay bracket
	AGIGA9801-005JCA	Intel FBU2 case
	AGIGA9801-105/205JCA	PCIe bracket (1x and 2x configurations)
	AGIGA9811-001JCA/JCB	2.5" drive form factor
	AGIGA9821/22-001JCA	Hybrid supercap modules

Additional form factors available. Please contact [info@agigatech.com](mailto:info@agigatech.com) for more information.

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