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

EDISON AWARDS GOLD 2013 WINNER

CONNECT MOST INNOVATIVE NEW PRODUCT AWARDS 2010 WINNER INNOVATION IN MOTION

RED HERRING WINNER 100 N. AMERICA

EON HOT 100

TechAmerica HIGH TECH AWARDS WINNER
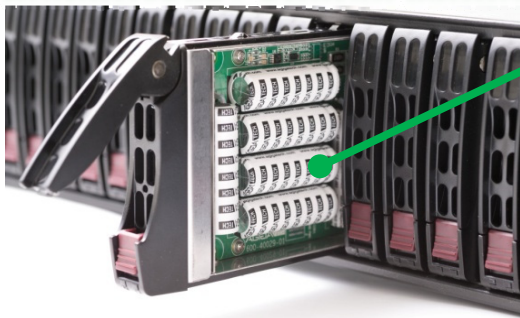
AGIGA TECH

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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 for more information.

www.agigatech.com

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