



DDR4 NVDIMM-N KOMODO

KOMODO nonvolatile memory modules blur the lines between storage and memory to meet the increasingly pressing need for high-performance persistent memory to enable scalable compute and storage applications. Based on the JEDEC specifications for NVDIMM-N, KOMODO combines industry-standard DDR4 DRAM and NAND Flash technology, providing the low latency and near-infinite endurance of DRAM, along with the non-volatility of Flash. KOMODO NVDIMMs also pair with PowerGEM® energy modules, intelligent power supplies utilizing supercapacitor technology for an environmentally friendly solution when compared to batteries. Together, they offer a persistent memory solution that is unparalleled in performance and reliability when compared to existing alternatives.

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Key Features

- Meets JEDEC standards for NVDIMM-N Nonvolatile Dual Inline Memory Modules
- Highly reliable persistent memory solution
- · DRAM, Flash, Controller and Power Management integrated in a single module
- Unlimited write endurance
- Up to DDR4-3200 speed
- Supports SDRAM ECC error detection and correction by host memory controller
- · In-system health monitoring
- Automatic history tracking: tracks critical internal system parameters





Komodo1-16

16GB, pull-up on SAVE_n AGIGA8811-016ACA

16GB, no pull-up AGIGA8811-016ACB

Komodo1-32

32GB, pull-up on SAVE_n AGIGA8811-032ACA

32GB, no pull-up AGIGA8811-016ACB

Specifications

| DRAM Module | | | | |
|-----------------------|------------------------|--|--|--|
| Memory Technology | DDR4 | | | |
| JEDEC Module Type | NVDIMM-N | | | |
| NAND Type | pSLC (TLC) | | | |
| Speed | Up to 3200 MT/s | | | |
| CAS Latency | Up to CL22 | | | |
| DRAM Capacity | 16GB/ 32GB | | | |
| Rank x Org. | 1rank x 4 | | | |
| Component Composition | 16GB: 2Gx4/ 32GB: 4Gx4 | | | |
| Voltage | 1.2V | | | |
| Pin Count | 288pin | | | |
| PCB Height | 31.25 mm | | | |
| Data Save Time | < 40s (typical) | | | |
| Data Restore Time | < 40s (typical) | | | |
| Power Consumption | | | | |
| Active Read | 5W | | | |
| Active Write | 7W | | | |
| Standby | 1.5W | | | |
| Operating Environment | | | | |
| Operating Temperature | 0°C ~ 85°C | | | |

-40°C ~ 95°C

Storage Temperature



Detailed Product Info

| Bandwidth | | Up to 3200 MT/s | | |
|--------------------------------|-----------------------------|----------------------|--------------------------|------|
| Configuration | | 1Rank x4 | | |
| Memory | DRAM | Density | 16GB | 32GB |
| | NAND | Density ¹ | 32GB | 64GB |
| | | Туре | p-SLC (TLC) | |
| Data Back-up ^{2,3} - | Save Time | | 34s | |
| | Restore Time | | 38s | |
| PowerGEM Supercap Module | Operating temp. | | Up to 55°C | |
| | Capacity ⁴ | | 140J | 210J |
| | Lifetime | | 5 years (typical) | |
| | Certifications ⁵ | | RoHS, REACH, cUL, CB, CE | |

1. NAND density reflects the density in p-SLC mode. 2. Typical save/restore times. 3. Restore time impacted by NAND ECC#, so may increase over time as the NAND wears. 4. Energy requirement to support NVDIMM backup at EOL. 2 NAND. 5. cUL covers UL and CSA.

