



ArxCis-NV™

Non-Volatile Persistent Memory

DDR3 Non-Volatile Hybrid Memory Solution for Storage and Server Environments

ArxCis-NV™ a DDR3 non-volatile DIMM, delivers both performance and reliability to the enterprise storage market. This storage class memory was designed to securely backup critical data that must be preserved in the event of a power failure, ArxCis-NV serves as the persistent memory solution for data security and reliability. Mission critical data, which resides in volatile DRAM, historically has been reliant on batteries or a UPS for backup. ArxCis-NV now offers a highly reliable, secure, maintenance-free and disaster-free persistent memory solution for enterprise environments.

The ArxCis-NV module is a DDR3 JEDEC pin compatible ECC Registered DRAM module, paired with an integrated embedded solid state drive (SSD) for data backup. ArxCis-NV continuously monitors voltage levels so that in the event of power loss, the SAVE function is activated to transfer volatile DRAM content into non-volatile NAND, where it can securely reside for up to 10 years.

Non-Volatile
Memory

DDR3

10 Years
Data Retention

100%
Data Security

Zero Recurring
Costs

Battery Free

Persistent Memory

Compatibility and Integration

Simple Integration: The ArxCis-NV DIMM has been designed to be integrated with ease into industry standard motherboard platforms. The ArxCis appears & functions in the host environment as a JEDEC standard DDR3 Registered DIMM. In the event of power failure, or a host driven SAVE command, ADR (Asynchronous Device Reset) enabled platforms have BIOS support to handle all necessary data transfer. If the host platform does not support ADR – Viking can support additional BIOS integration.

“Highly reliable, maintenance-free non-volatile hybrid memory for critical RAID applications”

- Data retention for up to 10 years
- No scheduled downtime for swap-out battery replacement
- No unscheduled downtime for downed systems due to power failure
- Zero recurring costs
- Continuous health monitoring with 100% data security
- End-to-End RAS coverage
- Industry standard JEDEC DDR3 form factor
- Storage class device
- Persistent memory tailored for enterprise storage and server environments

Maintenance Free Protection

Battery Backup Units (BBU) in today’s datacenters are being re-evaluated for their lack of availability and cost of maintenance. BBUs usually require constant monitoring, maintenance and replacement. Such activities typically require major downtime for the overall system.

ArxCis-NV enables a new “battery-free” approach removing the need for maintenance with zero recurring costs.

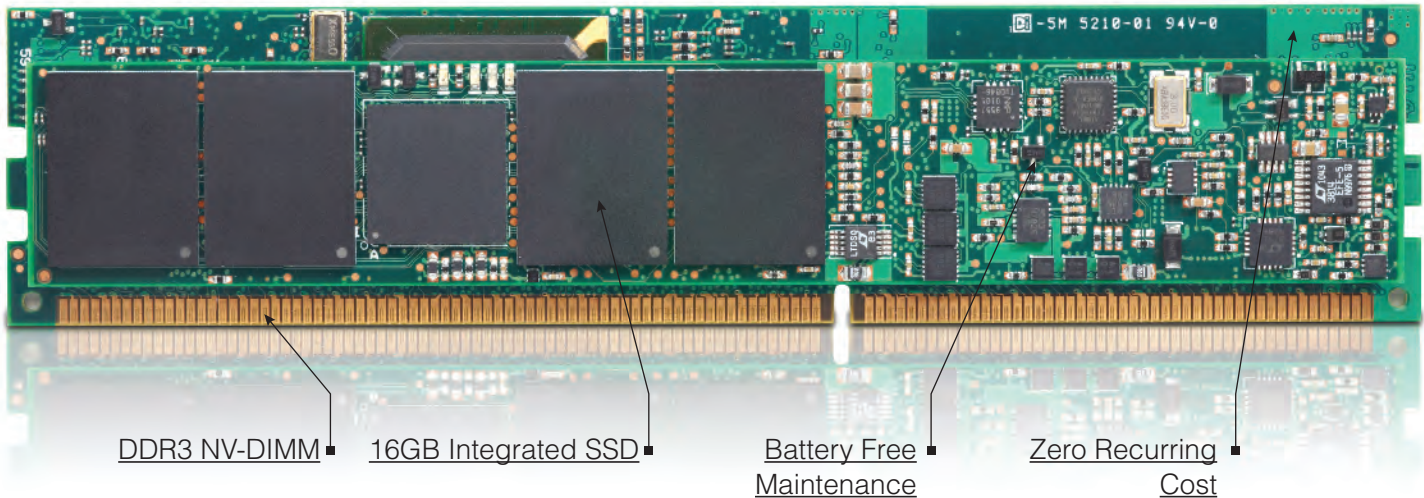
SPECIFICATIONS

ArxCis - NV

Form Factor	DDR3	240-Pin DIMM
	Height	30mm (25.5mm Gen2)
	Thickness	7.55mm
Capacity		2GB 1Rank 1333
		4GB 2Rank 1333
		8GB 2Rank 1333
SuperCapacitor		25 Farad (external pack)
Environmental	Operating Temperature	0°C to 60°C (5 year maintainance free)
Security	SSD Encrytion	AES-128
	Save and Restore	3 methods
	Error Correction	End-to-End RAS coverage
		DRAM ECC and SATA SSD ECC algorithms
Reliability		Maintanence free Operational lifetime - 5 years @ 60°C
Compliance		JEDEC Standard DDR3 pin-out

Storage Class Solution

ArxCis: Non-Volitale Hybrid Memory



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