



Gridstore Hybrid Storage Node

Hyper-Converged Infrastructure

Purpose-Built for Windows Workloads



Hyper-Converged Infrastructure

Gridstore's hyper-converged infrastructure includes Gridstore HyperConverged Appliances (all-flash or hybrid), any Microsoft Windows Servers, and Gridstore Hybrid Storage Nodes. Storage Nodes can be deployed as stand-alone storage or to extend a hyper-converged environment.

Gridstore Hybrid Storage Nodes

Gridstore Hybrid Storage Nodes accelerate applications in virtualized environments. Patented Server-side Virtual Controller™ Technology (vController™) creates a virtual storage stack for each VM that dynamically optimizes and prioritizes I/O before it leaves the server, delivering Quality of Service (QoS) per VM. They deliver seamless capacity growth starting at 12TB in a node and scaling up to 256 nodes, with a pay-as-you-scale model, allowing you to achieve a low TCO.

Gridstore Storage Nodes both accelerate all applications and eliminate the cost of over-provisioning server and storage resources due to the I/O blender. By virtualizing the storage controller (vController) and moving it directly into the host, it can isolate, optimize and prioritize I/O for each VM before it leaves the server. Management and unlimited vController software are also included with every storage node.

Hybrid Nodes add performance with a read and writeback cache built on PCIe flash and leverage two 10GbE connections (or four 1GbE NICs) to accelerate I/O even further.

Use Cases

Combined with the massively parallel scaling of the grid, Gridstore Hybrid Storage Nodes deliver high levels of performance for demanding workloads while scaling to meet any need. Hybrid Nodes are designed for high performance I/O requirements such as:

- Exchange or SQL Server databases
- Mixed workloads
- Hyper-V (server virtualization)
- VM backup
- Disaster recovery

Companies from all industry verticals have benefitted from implementing Gridstore into their ecosystem. From **companies** migrating from VMware to Hyper-V to **educational institutions**, customers have experienced dramatic performance while enjoying a substantial storage cost reduction.

Hybrid Storage Nodes have also been certified with industry-leading backup solutions such as CommVault, Symantec, Unitrends, and Veeam and can be used for typical backup workloads or for a second site for disaster recovery.

Key Benefits

- Accelerate Hyper-V apps
- Prioritize important apps
- Scale as you grow
- Optimize backup and recovery performance
- Deploy for disaster recovery
- Eliminate downtime during backup processes

"A BENEFIT OF GRIDSTORE IS THAT IT PROVIDES A HIGH-PERFORMANCE SOLUTION WITH ITS HYBRID OFFERING—A COMBINATION FLASH FOR CACHING AND SPINNING DISK FOR STORAGE—AT A COMPETITIVE PRICE COMPARED TO OTHER STORAGE VENDORS."

— Matthew Reynolds
IT Department, Meyers Nave

UNIQUE FEATURES

Native Hyper-V Integration

Power on and provision

Tightly integrated with Microsoft Windows Server and System Center management.

End-to-End I/O Control per VM

Predictable performance per VM

Assign specific I/O priority to guarantee top performance for critical VMs.

Efficient Scaling

Scale to fit your needs

True elastic scaling to grow as you need, up to 256 nodes.



Hybrid Storage Node Specifications

12TB System (1U)

GS-H2100-12

Per Node

Capacity	12 TB (4x3TB) SATA + PCIe Flash (550GB)
Processor	4-core Intel Xeon
Memory	32GB
Dual 1GbE Ports	Yes
Quad 1GbE Ports	Optional
Dual 10GbE Ports	Optional
Hot-Swap Drives	Yes
Dual Hot-Swap Power	Yes
Power Supply Resiliency	2 of 6 working
Redundant Fans	Yes
vController OS Supported	64-bit Windows Server 2008R2, 2012, 2012R2
Included Software	Unlimited vControllers
Chassis Dimensions	1.69" H x 17.09" W x 25.29" D (in) 42.8 H x 434.0 W x 642.3 D (mm)
Maximum Weight	43.75 lbs (19.8 kg)
Power Consumption*	179 Watts/95 Watts
Operating Temperature	10°C to 35°C (50°F to 95°F)
Non-operating Temperature	-40°C to 65°C (-40°F to 149°F)

* Typical power consumption during spin-up / idle under normal operating conditions

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Gridstore Warranty and Support

Warranty

Gridstore hardware products come with a 3-year limited hardware warranty. Gridstore may offer different delivery methods for warranty service, including but not limited to parts and product dispatches and mail-in service. Base-level warranty service is mail-in, which can be changed based on support and service contracts purchased by the customer.

Support

Gridstore offers a variety of support options, including 24x7x365 worldwide support. Visit www.gridstore.com/support for details.



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