Quantum

STORNEXT 7 ON THE QUANTUM H4000 SERIES

DATASHEET

FEATURES & BENEFITS

Faster Time-to-Value with Dramatically Simplified StorNext User Experience

The H4000 appliances make it easy to deploy, configure, and administer the StorNext 7 File System on a compact 2U server.

Reduce Rack Space, Power, and Cooling Costs

The converged, compact design of the H4000 reduces components by 66%, rack space by 50%, and reduces power and cooling costs.

Simplify Networking Complexity

By converging multiple servers and storage arrays into a single server, H4000 appliances simplify networking complexity and make StorNext easy to deploy for even edge and remote environments.

Highly Available, Flexible Design

Every H4000 Series model is built on a dual controller architecture, with flexible storage options as well as network connectivity to meet the needs of any high-performance low-latency workload.

Virtualized. Containerized. Cloud-Ready. Easy to Deploy and Use in More Places Than Ever.

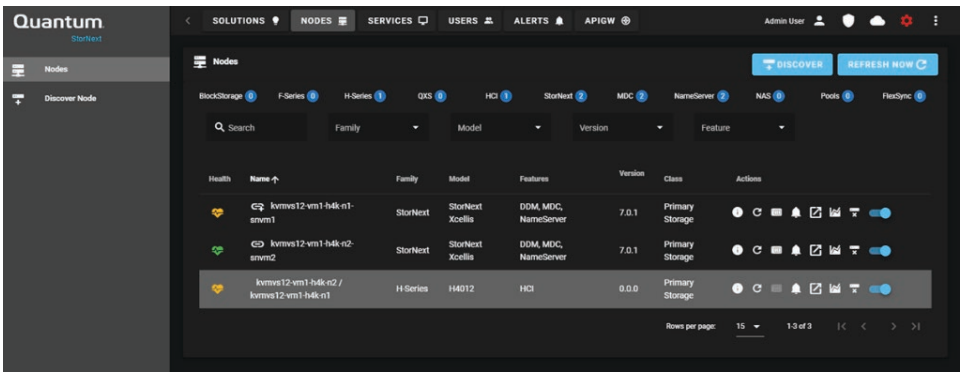
Streamline Your Storage Workflow and Deploy Faster in a Unified StorNext User Experience

The Quantum H4000 Series is a line of highly available dual controller appliances for hosting the StorNext® 7 File System. The H4000 Series takes advantage of the latest StorNext 7 software-defined architecture, which dramatically simplifies the StorNext user experience, and dramatically simplifies and speeds your shared storage deployments.

In this new software-defined architecture, StorNext 7 has been virtualized, and significant architectural components such as the management layer and APIs have been containerized and pre-configured. StorNext 7 file services, data services, and block services can now run virtually on a single, easy to manage platform.

This new cloud-ready architecture delivers greater efficiency, flexibility, and a dramatically simplified user experience than traditional architectures. This represents a major architectural step to enable public and hybrid-cloud deployments of the StorNext 7 File System, and makes it easier to use StorNext in more places than ever.

When deploying StorNext 7 on an H4000 appliance, administrators can manage and monitor the H4000 storage system directly from the StorNext 7 user interface, making it easy to manage an entire StorNext 7 File System cluster from a single interface and improving productivity.



LEARN MORE:

www.quantum.com/h4000

Choose Your Ideal Configuration in a Highly Available, Flexible Design

By pairing this software-defined architecture with powerful computing architecture standards like PCIe 4, an entire StorNext environment can be consolidated into a very small footprint, simplifying management and administration.

The H4000 Series is available in two server form factors, a 2U12 that offers 12 storage bays, and 2U24 that offers 24 storage bays. Each system can support different SSD and HDD storage, and by easily expanded for additional capacity using optional SAS expansion systems.

The H4000 Series 2U24 model offers several capacities of SSD or 10K RPM HDDs ideal for latency-sensitive workloads, while the 2U12 model supports NL-SAS HDDs and is ideal for sequential streaming workloads and building cost-effective, scalable storage capacity.

Every H4000 model has a dual controller hardware architecture built on PCIe 4.0, end-to-end 12G SAS connectivity, high-performance multi-core AMD CPUs, and offers a wide choice of networking options including 100 GbE, 25 GbE, and up to 32 Gb Fibre Channel.


H4012 Front


H4012 Rear


H4024 Front


H4024 Rear

Specifications	H4012	H4024	2U12 JBOD Expansion	2U24 JBOD Expansion
Form Factor	2U rack-mounted chassis			
Drives per Chassis	12	24	12	24
Drive Options (SED or non-SED)	4 TB, 8 TB, 16 TB NL-SAS 7.2K RPM	1.9 TB, 7.68 TB, 15.36 TB SAS SSD 1.2 TB, 1.8 TB, 2.4 TB SAS 10K RPM	4 TB, 8 TB, 16 TB NL-SAS 7.2K RPM	1.9 TB, 7.68 TB, 15.36 TB SAS SSD 1.2 TB, 1.8 TB, 2.4 TB SAS 10K RPM
Raw Capacity per Chassis (TB)	48 96 192	46 29 184 43 369 58	48 64 192	46 29 184 43 369 58
Usable Capacity per Chassis (TB)	40 80 160	38 24 154 36 307 48	40 80 160	38 24 154 36 307 48
Connectivity Cards Up to 3 cards per chassis	Dual 100 Gb / 40 GigE Quad 25 Gb / 10 GigE Quad 10GBASE-T Ethernet Quad 32 Gb Fibre Channel		12G SAS for expansion	
Onboard I/O	2x 10GBASE-T per controller for monitoring and management (4x total per array) 2x 12 Gbps SAS per controller (4x total per array)		N/A	
Management	Integrated IPMI 2.0 + KVM with dedicated LAN		Web-based management, SNMP	
Physical Dimensions	Height 3.43" (87 mm) Width 17.7" (450 mm) Depth 24.2" (614 mm) Weight 63 lbs (28.58 kg)	Height 3.43" (87 mm) Width 17.7" (450 mm) Depth 22.8" (580 mm) Weight 59 lbs (26.76 kg)	Height 3.43" (87 mm) Width 17.7" (450 mm) Depth 20.4" (518 mm) Weight 48 lbs (21.77 kg)	Height 3.43" (87 mm) Width 17.7" (450 mm) Depth 19.0" (483 mm) Weight 44 lbs (19.96 kg)
Power Supplies	1300 W AC redundant		550 W AC redundant	
Power Supply Input	100 - 140 Vac / 12.5 A / 1000 W Max / 50-60 Hz 200 - 240 Vac / 8.5 A / 50-60 Hz		100 - 240 Vac / 7 A / 50-60 Hz	100 - 240 Vac / 7 A / 50-60 Hz
Operating Temperature	0 °C to 35 °C (32 °F to 95 °F)			
Non-Operating Temperature	-20 °C to 70 °C (-4 °F to 158 °F)			
Operating Relative Humidity	5% to 95% non-condensing			

Quantum

Quantum technology, software, and services provide the solutions that today's organizations need to make video and other unstructured data smarter – so their data works for them and not the other way around. With over 40 years of innovation, Quantum's end-to-end platform is uniquely equipped to orchestrate, protect, and enrich data across its lifecycle, providing enhanced intelligence and actionable insights. Leading organizations in cloud services, entertainment, government, research, education, transportation, and enterprise IT trust Quantum to bring their data to life, because data makes life better, safer, and smarter. Quantum is listed on Nasdaq (QMCO) and the Russell 2000® Index. For more information visit www.quantum.com.