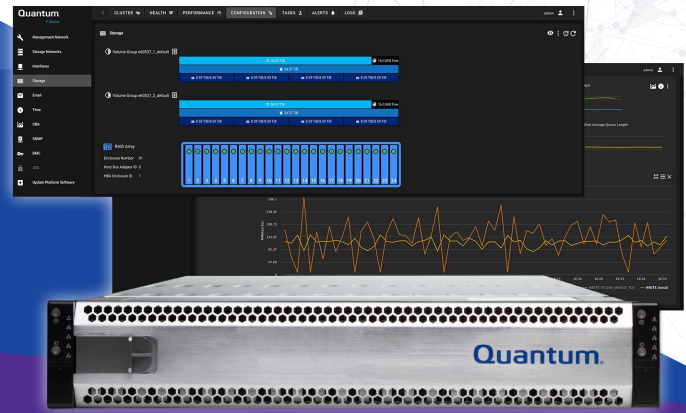


Quantum

F-SERIES NVMe STORAGE

The Power to 'Re-NVMe' Your Workflow
with the Fastest Performance for StorNext



DATASHEET

FEATURES & BENEFITS

Orders of Magnitude Faster than Traditional Flash Storage

NVMe is much faster than traditional flash storage, providing extremely low latency and instant response times for workloads that require a large amount of parallel access.

Reduce Infrastructure Costs and Complexity

Quantum F-Series provides predictable, low-latency access via Fibre Channel or Ethernet, so users can achieve large-system SAN performance with Ethernet-based infrastructure.

Meets Performance Requirements in Less Rack Space

A single F2200 system can match the performance of much larger SSD or HDD systems—delivering extreme performance for your users in a much smaller package.

Easily Integrates into a StorNext® File Storage Cluster

StorNext 7 is highly optimized for NVMe storage to deliver shared streaming performance with ease, or create custom storage pools combining NVMe with SSD or HDD storage.

The Quantum F2200 is the newest generation of NVMe storage ready to re-invent your storage workflows with the full performance possibilities of flash storage technology to smash workflow bottlenecks and unlock new levels of multi-client ingest and streaming performance: up to 90.5 GB/s reads and up to 737 TB of raw storage in a single 2U system.

Product Overview

The F2200 is a highly available, high-performance storage server—purpose-built for NVMe with no single point of failure. It is a 2U dual-node server with two hot-swappable PCIe Gen 4 compute canisters and 24 dual-ported Gen-4 NVMe drives. Each compute canister can access all 24 NVMe drives, and each compute canister includes processing power, memory, and connectivity specifically designed to deliver highest performance and availability.

F2200 Front



24 dual-ported NVMe drives
Available in four capacities:

- 92.16 TB (24 x 3.84 TB)
- 184.32 TB (24 x 7.68 TB)
- 368.64 TB (24 x 15.36 TB)
- 737.28 TB (24 x 30.72 TB)

F2200 Rear



Dual-node server with two
hot-swappable compute canisters.
Each compute canister can access
all 24 drives.

Each compute canister includes:

- PCIe Gen 4 System Bus
- 2 Intel Xeon Gold CPUs
- 256 GB (16 GB per 16 slots)
- 2 M.2 Boot Drives (512 GB)
- 2 Dual-Port 100GbE per controller (8 x 100GbE total) or
2 Quad-Port 43Gb FC per controller (16 x 32Gb total)

Redundant 2000 W PSUs

The F2200 appliance offers 24 dual-ported NVMe drives and is available in four capacity points (raw):

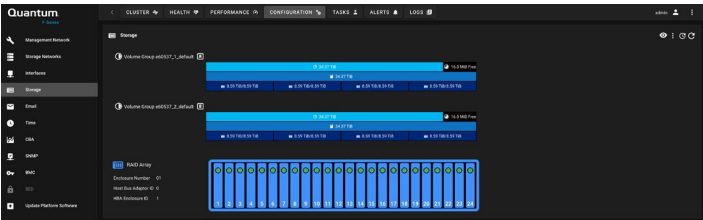
- 92.16 TB (24 x 3.84 TB)
- 184.32 TB (24 x 7.68 TB)
- 368.64 TB (24 x 15.36 TB)
- 737.28 TB (24 x 30.72 TB)

StorNext 7 and newest drivers for iSCSI RDMA (iSER), NVMe-oF RDMA, NVMe-oF TCP, or Fibre Channel take full advantage of the latest hardware architecture to deliver the highest performance and capacity in a dual-controller architecture that is fast to upgrade, and easy to manage.

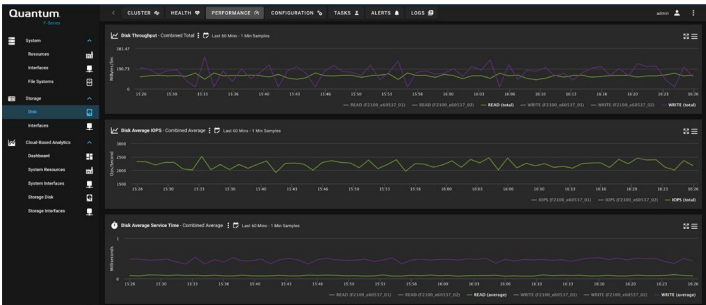
Both controllers drive the 24 bays of NVMe Flash storage together for efficient load-balancing across your choice of either 4 ports of 100 GbE or 8 ports of 32 Gb Fibre Channel.

LEARN MORE:

www.quantum.com/f-series



Unparalleled Ease of Use
Manage and monitor your system in the interface powered by Quantum Block Storage v2.0 - including throughput, IOPS, logs, and more.



Specification	F2200
Form Factor	2U rack-mounted chassis
Controller Design	Dual redundant active/active hot swappable controllers with PCIe Gen 4 system bus
Processors	Intel® Xeon® Gold Processor 2 CPUs/Controller
Memory	256 GB (16x 16 GB) DDR4 DIMMs/Controller
Storage Drives	24 NVMe SSD
Drive Capacity Options	30.72 TB, 15.36 TB, 7.68 TB, 3.84 TB
Single System Raw Capacity	737.28 TB, 368.64 TB, 184.32 TB, 92.16 TB
Single System Usable Capacity	612 TB, 306 TB, 153 TB, 77 TB
Connectivity (Ethernet Model)	2x Dual Port 100 Gb Ethernet per Controller (total of 8 ports per system)
Connectivity (Fibre Channel Model)	2x Quad Port 32 Gb Fibre Channel per Controller (total of 16 ports per system)
System Management Connectivity	2x 10GBASE-T per Controller (total of 4 ports per system)
System Management	Integrated IPMI 2.0 + KVM with dedicated LAN
Serviceability	Hot-swappable power supplies Compute canister Drive Modules
Physical Dimensions	Height 3.45" (88 mm) Width 17.58" (446 mm) Depth 32.93" (836 mm) Net Weight: 86.0 lbs (39.1 kg) Gross Weight: 92.6 lbs (42.1 kg)
Power Supply	Two redundant, hot-swappable 2000 W power supply units
Power Supply Input	200 – 240 Vac
Power Supply Certification	Platinum
Operating Temperature	10 °C to 35 °C (50 °F to 95 °F)
Non-Operating Temperature	-40 °C to 60 °C (-40 °F to 158 °F)
Operating Relative Humidity	8% to 85% (non-condensing)
Non-Operating Relative Humidity	8% to 95% (non-condensing)



Quantum delivers end-to-end data management solutions designed for the AI era. With over four decades of experience, our data platform has allowed customers to extract the maximum value from their unique, unstructured data. From high-performance ingest that powers AI applications and demanding data-intensive workloads, to massive, durable data lakes to fuel AI models, Quantum delivers the most comprehensive and cost-efficient solutions. Leading organizations in life sciences, government, media and entertainment, research, and industrial technology trust Quantum with their most valuable asset – their data. Quantum is listed on Nasdaq (QMCO). For more information visit www.quantum.com.

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