QF2 for the Qumulo Nearline Archive Series

Qumulo File Fabric (QF2) is the world's most modern, scalable file storage system, and QF2 running on the Qumulo Nearline Archive Series is the most efficient, highly performing nearline archive system on the market. Qumulo's solution has the economics of archive storage, better performance than other nearline storage, and is designed for massive scalability in terms of performance, capacity and the number of files it can manage.

Traditional cold archives are large, cumbersome systems. They're dense 4U (or even 6U) boxes that weigh hundreds of pounds and are too heavy for someone to maintain on their own. They were conceived before the era of cloud computing, and behave accordingly. They made sense for an era that was less agile, less nimble, less cloud-like.

Traditional archives are called "cold storage" for a reason—data goes in and rarely comes out. Today, businesses need instant access to all their data. The Qumulo Nearline Archive Series, with its fast read times, makes all of your valuable data, no matter how long it's been archived, instantly available to you. The system provides approximately 6GB/s reads and 3GB/s writes per PB of user files. A minimum cluster is six nodes, and performance increases linearly with each 1U node you add. You can achieve 27GB/s read throughput in a single rack.

The Qumulo Nearline Archive Series is built entirely from the latest standard hardware components, including a Xeon-D system-on-a-chip, a 1U chassis, 12 x 12TB HDDs and 3 x 800GB SSDs. The Qumulo Nearline Archive Series has the densest drives on the market and an innovative 1U form factor for smaller failure domains and granular scalability. With QF2, you'll never be left behind as hardware advances.

Features & Benefits

- **Modern approach to scale**
  QF2 is the world's most modern, highly scalable storage system. QF2 is architected to be simple to install, simple to scale and simple to manage, no matter how many files it supports.
- **Instant insight and analytics**
  QF2's groundbreaking analytics give real-time insight, providing visibility into the performance of your storage, capacity and usage, all the way to the individual client activity. Instantly.
- **Best of breed standard hardware**
  Advanced, distributed software running on standard hardware is the unchallenged basis of modern low-cost, scalable computing. The future of file storage is on standard hardware whether on premises or in the cloud. Qumulo's reliance on industry-standard hardware architectures is a key benefit for customers looking to maximize their investment in a world of rapid hardware innovation.
- **Densest drives on the market**
  The Qumulo Nearline Archive Series uses 12TB drives for best density.
- **Smaller failure domains**
  The Qumulo Nearline Archive Series has a 1U form factor, which means that logical nodes do not have single points of failure such as a shared chassis and power supply.
- **Granular scaling**
  The Qumulo Nearline Archive Series allows customers to add capacity in 144 TB increments, with a linear increase in total available throughput.

"Archives are places where only historians go. As businesses decide that all data is valuable and usable—for the business, not for historians—a new class of storage is required. Nearline archive storage today must exhibit the economics of the traditional archive but the performance of modern scale-out. By focusing on proprietary hardware choices, legacy vendors lock themselves into low-volume, high-cost hardware that creates a fast OR deep mentality. Qumulo, by building enterprise performance, reliability, and scale storage on standard hardware, is using cloud technology to deliver a new class of storage, the Qumulo Nearline Archive Series, that is fast, scalable, AND inexpensive."

— **Peter Godman**, co-founder and CTO of Qumulo

Even a minimum six-node cluster offers the best density, power efficiency and network efficiency on the market. Expanding the cluster is simple—you simply add another node.

Technical Specifications

Connectivity	Built in Dual 10GbE SFP+ Ports
Management	1x RJ45 Dedicated IPMI LAN port
Storage Media	12 - 12TB HDDs, 3 - 800GB SSD's, 1 - SDD boot drive
CPU	Intel® Xeon-D D-1531, SoC 6cores, 2.2GHz
Memory	64GB
Raw Storage Capacity	144TB
PSU	400W Platinum PSU, 1+1 redundant power supplies
Dimensions	1.7" x 17.6" x 36.25" / 43 mm x 447mm x 921 mm
Power Requirements	100-240V AC
Typical Power Consumption	142 W
Typical Thermal Rating	484 BTU/h
Max Power Consumption	240 W
Max Thermal Rating	818 BTU/h
Operating Temp	5°C to 35°C (41°F to 95°F)
Non-op temp	-40°C to 65°C (-40°F to 149°F)
SKU	K-144T

About Qumulo

Qumulo is the leader in universal-scale file storage. Qumulo File Fabric (QF2) gives data-intensive businesses the freedom to store, manage and access file-based data in the data center and on the cloud, at petabyte and global scale. Founded in 2012 by the inventors of scale-out NAS, Qumulo serves the modern file storage and management needs of Global 2000 customers. For more information, visit http://qumulo.com/.

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