Qumulo Nearline Archive for Video Surveillance

Video surveillance, including Close Circuit Television (CCTV), body cameras and aerial surveillance, comes with storage challenges. Organizations are increasing the number of cameras, moving toward higher-fidelity resolutions and keeping their media assets longer. They want to keep their storage costs down even as they require more and more capacity to store their data. They want to access that data quickly, with close to mainline speed but without mainline cost.

The Qumulo Nearline Archive Series, the most efficient, highest performing active archive system in the market, answers the challenge of unified video surveillance data storage. Qumulo's solution has the economics of archive storage, nearline performance, and massive scalability in terms of capacity and the number of files it can manage. The Nearline Archive series runs Qumulo File Fabric (QF2), the world's most modern file storage system. QF2 can manage trillions of files and provides a single, scalable pool of external storage for video surveillance applications.

The Qumulo Nearline Archive Series is the densest storage available for video surveillance data. Qumulo's performance and capacity increase linearly with each node you add. For example, a twenty node configuration can hold 2.4PB of video surveillance files. You can store approximately 4.8PB of video surveillance files 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

- **Instant insight and analytics**
  QF2's groundbreaking analytics give real-time insight into the performance of your storage, capacity and usage, all the way to the individual client activity. Go to the Activity by Client page to see exactly how much throughput the recording servers are using. You'll know exactly how many cameras you can add to a server.

- **Single namespace**
  QF2 stores everything in a single namespace, no matter how many petabytes of data you store. You'll never have to try and figure out which camera data is being stored on which logical unit again.

- **Most efficient**
  Video surveillance files are often small. QF2 stores small files as efficiently as large ones and always uses erasure coding to protect them. Many legacy systems use triple mirroring for small files, which means lots of wasted space. With QF2, you always get the capacity you paid for.

- **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.

- **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.
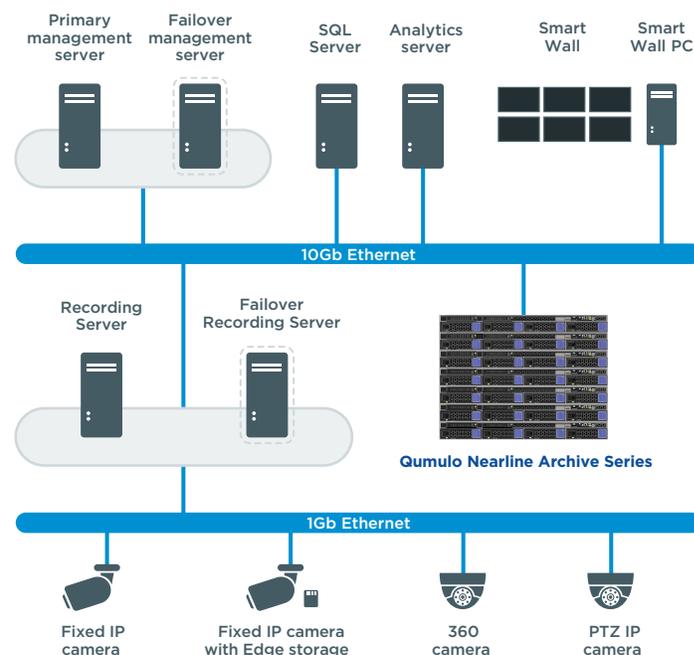
- **Simple subscription pricing**
  Qumulo's simple pricing model means that your subscription pays for everything, including all features, new features and support.

Here is an example configuration.

"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

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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