

Qumulo Nearline Archive Series

Qumulo’s distributed file system is the world’s most modern, hybrid cloud file storage solution, and Qumulo running on the Nearline Archive Series is the most efficient, high performing nearline archive system available. Qumulo’s solution has the economics of archive storage, better performance than other nearline storage offerings, and is designed for massive scalability in terms of performance, capacity and the number of files it can manage.

Traditional cold archives can be large, cumbersome systems. They’re dense 4U (or even 6U) boxes that weigh hundreds of pounds and are often too bulky for someone to maintain on their own. They were conceived before the era of cloud computing, and behave accordingly. These legacy systems made sense for an era that was less agile, less nimble, and not built for the cloud.

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The Qumulo Nearline Archive Series, with its fast read times, makes all of your valuable data, no matter how long it’s been archived, instantly available to you.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 four 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 from the latest standard hardware components, including a Xeon-D system-on-a-chip and a sleek 1U chassis. The Nearline Archive Series has the densest drives on the market with an innovative 1U form factor for smaller failure domains and granular scalability. With Qumulo’s distributed file system, you’ll never be left behind as hardware advances.



K-144T | K-168T

FEATURES & BENEFITS

- Scale across**
 Built to scale across your data center and the cloud.
- Visibility**
 Real-time analytics to understand your storage at a granular level, detect bottlenecks and accelerate performance.
- 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.
- Linear scaling**
 The Qumulo Nearline Archive Series allows customers to add capacity in 144 TB and 168 TB increments, with a linear increase in total available throughput.
- Customer value**
 An innovative approach that continuously delights with new capabilities, 100 percent usable capacity and direct access to experts.



“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 provides high-value.”

— Peter Godman, Founder, Qumulo

Even a minimum four-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

Per Node	K-144T	K-168T
Connectivity Ports	2 x dual 10GbE (SFP+)	
Management Ports	10GbE base-T (RJ45)	
Storage Media (all hot-swappable)	12 x 12TB HDD, 3 x 800GB SSD	12 x 14TB HDD, 3 x 960GB SSD
CPU	Intel® Xeon-D D-1531 SOC, 6 cores, 2.2GHz	
Memory	64GB	
Raw Storage Capacity	144TB	168TB
Power Supply	2 x 400W (fully redundant, hot-swappable)	
Dimensions (HxWxD)	1.7" (4.3cm) x 17.2" (43.7cm) x 36.25" (92.1cm)	
Weight	63lbs (28.6kg)	
Power Requirements	100 – 240V, 50/60hz	
Typical Power Consumption	0.59A @ 240V, 1.29A @ 110V	
Typical Thermal Rating	142W (VA), 484 BTU/h	
Maximum Power Consumption	1.0A @ 240V, 2.18A @ 110V	
Maximum Thermal Rating	240W (VA), 818 BTU/hr	
Operating Temperature	41°F to 95°F (5°C to 35°C)	
Non-operating Temperature	-40°F to 149°F (-40°C to 65°C)	
Operating Relative Humidity	8% to 90% (non-condensing)	
Non-operating Relative Humidity	5% to 95% (non-condensing)	

Certifications	
Safety	UL, cUL
Country	FCC (USA), NRTL (USA and Canada)
Emissions	FCC Part 15 Class A, ICES-003 Class A
Immunity	North America

ABOUT QUMULO

Qumulo hybrid cloud file storage delivers real-time visibility, scale and control of data across on-prem and cloud. Qumulo customers understand storage at a granular level; programmatically configure and manage usage, capacity and performance; and are continuously delighted with new capabilities, 100 percent usable capacity and direct access to experts. More: www.qumulo.com