

The Nimble Storage CS-Series



Engineered for Efficiency

Demands for better storage performance, scalability, data protection, and simplicity continue to grow in today's datacenter. The rapid adoption of virtualization and server consolidation has further compounded the need for network storage that can keep up with these demands. Nimble Storage makes it possible for IT to tackle them all head on.

Nimble Storage designed its Cache Accelerated Sequential Layout (CASL™) architecture to help large and small IT organizations address their storage challenges. As the industry's first flash-optimized storage architecture designed from the ground up, CASL effectively combines the performance of flash for reads with a unique data layout optimized for writes. The result is high-performance, efficient storage. CASL also includes integrated data protection and management functionality required by today's demanding applications, eliminating the need for separate backup storage solutions and tools. These characteristics make the Nimble Storage CS-Series the ideal storage platform for mainstream IT applications in a variety of environments, ranging from midsize deployments with hundreds of users to large enterprises with thousands of employees.

Nimble Storage CS200 and CS400 Series

Choosing the right Nimble Storage array is simple. The CS200 Series is a good fit for midsize businesses or distributed sites of larger organizations, supporting workloads such as Microsoft applications, VDI, or virtual server consolidation. For IO-intensive workloads, such as transaction processing supported by Oracle or large-scale VDI deployments, the CS400 Series delivers higher performance. Nimble Storage arrays come standard with full software functionality, so there are no hidden costs.

Scale to Fit

CASL's scale-to-fit capabilities make it easy to non-disruptively scale the CS-Series to meet

both the growing capacity and performance needs of today's datacenter. Storage can be scaled to hundreds of terabytes by adding disk shelves. Performance can be enhanced through the addition of higher capacity SSDs able to support larger amounts of active data. For additional throughput, a CS200 system can be upgraded to a CS400 non-disruptively. Lastly, to scale both performance and capacity beyond a single CS-Series array, IT can combine multiple arrays non-disruptively into a single scale-out cluster, thus eliminating storage silos and their corresponding poor utilization and management complexity.

The Nimble Storage CS-Series delivers the right mix of high performance and efficient capacity for mainstream workloads in IT organizations of all sizes.

“With Nimble we have reduced power consumption, cooling needs and rack usage, eliminated traditional backup and associated backup windows, shortened our recovery point objective, improved server performance, and improved perceived user experience.”

Lucas Clara
 Director of Information Technology
 Foster Pepper PLLC

Our Customers Protect 5x More Apps

% OF WORKLOADS REPLICATED FOR DISASTER RECOVERY

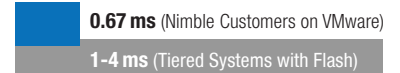


Actual Results for All Nimble Storage Customers



Our Customers Access Data 10x Faster

WRITE LATENCY



READ LATENCY



Our Customers Enjoy Virtually Zero Downtime



Measured Across Entire Nimble Installed Base (Jan-June 2012)

Nimble Storage Software

All software functionality is included with the Nimble Storage CS-Series array. The following lists some of the included software features.

- Dynamic caching
- Write-optimized data layout
- App-aligned block size
- Universal compression
- Thin provisioning
- Instant snapshots
- WAN-efficient replication
- Zero-copy clones
- App-integrated backup/profiles
- Non-disruptive scale-to-fit
- Scale-out clustering
- Proactive wellness
- Non-disruptive upgrades
- Remote secure support
- Unified administration
- Multipath/connection manager

Product Specifications

Nimble Storage CS-Series	CS210	CS220	CS240	CS260	CS420 ¹	CS440	CS460
Controller Type	High Performance				Extreme Performance		
Raw Disk Capacity—Base (TB)	8	12	24	36	12	24	36
Effective Capacity—Base (TB) ²	4 - 9	8 - 16	17 - 33	25 - 50	8 - 16	17 - 33	25 - 50
Effective Capacity—Maximum (TB) ^{2,3}	38 - 76	109 - 218	117 - 234	125 - 249	109 - 218	117 - 234	125 - 249
Max Number of Expansion Shelves	1	up to 3					
Base Flash Capacity (GB)	160	320	640	1,200	—	640	1,200
x2 Flash Capacity (GB)	—	640	1,200	2,400	640	1,200	2,400
x4 Flash Capacity (GB)	—	1,200	2,400	—	1,200	2,400	—
Network Connections Per Controller	4x 1GbE	6x1GbE / 2x10GbE+2x1GbE (G Model)					
SAS Connectivity Per Controller	2x 6Gb SAS						
Power Requirement	450W	500W			550W		

Expansion Shelves	ES1-H25	ES1-H45	ES1-H65
Raw Disk Capacity (TB)	15	30	45
Effective Capacity (TB) ²	11 - 22	23 - 45	34 - 68
Flash Capacity (GB)	160	300	600
SAS Connectivity Per Controller	4x 6Gb SAS (2 module/shelf)		
Power Requirement	400W		

Physical and Environmental Specifications	
Dimensions	5.2"H x 17.2"W x 26.5"D 13.2 cm x 43.7 cm x 67.3 cm 3 rack units
Weight	76 lbs.
Operating Temperature	10 - 35° C (50 - 95° F)
Non-Operating Temperature	0° C - 40° C (32° F - 110° F)
Operating Humidity	8 - 90%
Non-Operating Humidity	5 - 95%

Notes

1. The CS420 model is available in CS420-X2 and CS420-X4 options only.
2. Effective capacity is calculated after excluding space for parity, spares, and system overhead; the range represents 0x to 2x compression.
3. Maximum capacity is the capacity of the base array and maximum number of expansion shelves

Proactive Wellness

Nimble goes well beyond the traditional support model to keep storage operating at peak efficiency and performance with virtually no downtime. The combination of proactive monitoring and analysis, remote technical support and parts repair/replacement ensures smooth operations and high satisfaction. Nimble Storage support offerings include:

- 24x7 remote technical support center
- 4-hour or next business day part replacement
- 24x7 monitoring and response
- Software updates included



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