

# Isilon X200

Flexibility, Scalability, Performance



## Scalability & Performance

- High concurrent access and scalable capacity in a single global namespace
- Scalable up to 5.2 PB
- Maximum aggregate throughput of over 30 GBps
- Up to 6.9 TB of globally coherent cache
- 60-second on-the-fly scaling of capacity and/or performance
- Namespace Operation Acceleration via SSD
- Up to N+4 data protection, set at cluster, directory, or file level
- Intelligent use of SSDs for metadata and file-based storage workflows

## Use Cases

The Isilon X200, powered by the OneFS Operating System is ideal for high-concurrency and high-throughput applications and workflows.

- **Digital Media:** broadcast, post production, and DI (digital intermediate)
- **Internet/Web 2.0:** online video, audio, and image serving; Web-analytics
- **Life Sciences:** genetic sequencing and large scale microscopy environments
- **Electronic Design Automation:** design team collaboration, design libraries, tool scripts, and design implementation databases
- **Virtualized Environments:** Tier 2 and Tier 3 workloads
- **HPC and Research:** Large sequential IO and throughput. Tier 2 results analysis and instrument data.

The Isilon X200, powered by the OneFS® operating system, uses Isilon's powerful yet simple scale-out storage architecture to speed access to massive amounts of critical data, while dramatically reducing cost and complexity. The Isilon X200 delivers a flexible solution to accelerate your high-concurrent and sequential-throughput applications. In addition, with SSD technology for file-system metadata and file-based storage workflows, the Isilon X200 significantly accelerates namespace intensive operations.

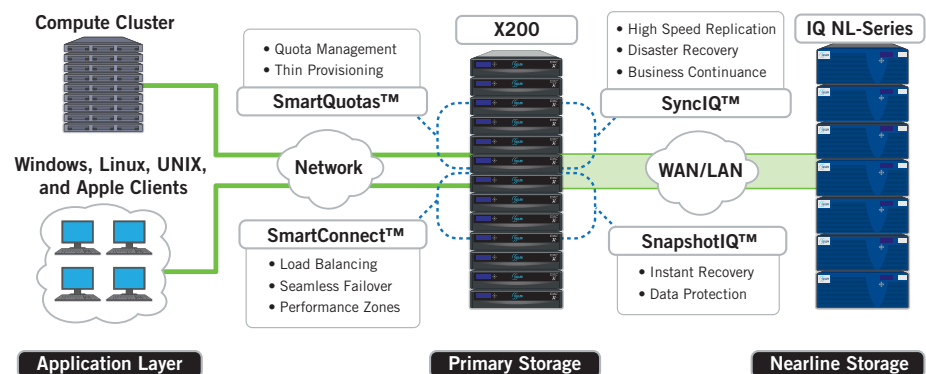
**Agility and Flexibility:** The Isilon X200 is the first unified scale-out storage solution capable of scaling from a few terabytes to multiple petabytes and over 30 gigabytes per second (GBps) of throughput, all within a single file system. On-the-fly scaling enables your organization to quickly grow capacity and performance linearly or independently, for ultimate agility.

**Simplicity:** Isilon's modular architecture and intelligent software make deployment and management simple. Once racked, you can have an X200 cluster online in less than 10 minutes, without time-consuming, expensive integration services. An X200 cluster provides a single pool of storage with a global namespace, eliminating the need to support multiple volumes and file systems.

**High Efficiency:** Isilon unified scale-out storage delivers much higher utilization rates than traditional NAS or SAN storage — over 80 percent versus 50 percent for competing solutions. That translates into greater overall efficiency, resulting in lower acquisition, operating, and maintenance costs. Low power consumption and maximum density further ensure the ultra-low overhead of Isilon storage.

The Isilon X200 provides the performance, scalability, and agility to conquer your storage challenges.

### Isilon X-Series Scale-out Storage Architecture: Accelerates high-concurrent and sequential-throughput applications



# Isilon X200 Product Specifications

## Product Attributes

<b>Scale-out Architecture</b>	Truly distributed, fully symmetric clustered architecture that combines modular storage nodes with Isilon's intelligent software.
<b>Modular Design</b>	Self-contained nodes include server, software, and disks in a 2U rack-mountable node.
<b>Operating System</b>	Sixth-generation Isilon® OneFS® distributed file system. Creates a cluster with a single file system and single global namespace. Fully journaled, fully distributed, globally coherent write/read cache.
<b>High Availability</b>	No single point of failure. Self-healing design protects against disk or node failure. Includes backend intra-cluster failover.
<b>Scalability</b>	Initial cluster setup in under 10 minutes. Add performance and capacity in 60 seconds. Up to 5.2 PB and 30 GB/s throughput.
<b>Data Protection</b>	FlexProtect file-level striping with support for N+1 through N+4 and mirroring data protection schemes.
<b>Data Replication</b>	SyncIQ™ fast and flexible file-based asynchronous replication.
<b>Data Retention</b>	SmartLock™ policy-based retention and protection against accidental deletion.
<b>Network Protocol Support</b>	NFSv3, NFSv4, NFS Kerberized Sessions (UDP or TCP), iSCSI, SMB1 (CIFS), SMB2, HTTP, FTP, NDMP, SNMP, LDAP, ADS, NIS reads/writes.
<b>Client Support</b>	Microsoft® Windows®, Linux, UNIX, Apple® Macintosh.
<b>Isilon Software Compatibility</b>	Compatible with all Isilon licensable software: SmartLock™, Isilon for vCenter™, SyncIQ™, SnapshotIQ™, SmartConnect™, SmartQuotas™, SmartPools™, InsightIQ™ and Aspera for Isilon IQ.

## Environmental Specifications

<b>Power Supply</b>	Dual redundant, hot-swappable 760W power supplies with Power Factor Correction (PFC)
<b>Operating Environment</b>	50° F to 95° F (10° C to 35° C), 5% to 95% relative humidity, non-condensing
<b>Dimension/Weight</b>	Height: 3.48" (8.8 cm), Width: 18.87" (47.9 cm), Depth: 28.5" (72.4 cm), Weight: 51.6 lbs / 23.4 kg
<b>Minimum Service Clearances</b>	Front: 35" (89.0 cm), Rear: 14" (35.6 cm)

Isilon X200 Node Attributes & Options	500GB			1TB			2TB			3TB		
	Base	Option 1	Option 2	Base	Option 1	Option 2	Base	Option 1	Option 2	Base	Option 1	Option 2
<b>Capacity (HDD/SSD)</b>	6TB	5.5TB/200GB	3TB/1.2TB	12TB	11TB/200GB	6TB/1.2TB	24TB	20TB/400GB	12TB/1.2TB	36TB	27TB/600GB	18TB/1.2TB
<b>Hard Drives (3.5" SATA)</b>	12	11	6	12	11	6	12	10	6	12	9	6
<b>Solid State Drives (SLC) 200GB</b>	0	1	6	0	1	6	0	2	6	0	3	6
<b>ECC Memory (FBDIMM cache)</b>	6GB	6GB, 12GB, 24GB or 48GB		6GB	6GB, 12GB, 24GB or 48GB		6GB	6GB, 12GB, 24GB or 48GB		6GB	6GB, 12GB, 24GB or 48GB	
<b>Front-end Networking</b>	4 copper 1000 Base-T (GigE)	4 x GigE (Copper) OR 2 x GigE & 2 x 10GigE (SFP+ or Twin-ax Copper)		4 copper 1000 Base-T (GigE)	4 x GigE (Copper) OR 2 x GigE & 2 x 10GigE (SFP+ or Twin-ax Copper)		4 copper 1000 Base-T (GigE)	4 x GigE (Copper) OR 2 x GigE & 2 x 10GigE (SFP+ or Twin-ax Copper)		4 copper 1000 Base-T (GigE)	4 x GigE (Copper) OR 2 x GigE & 2 x 10GigE (SFP+ or Twin-ax Copper)	
<b>CPU Type</b>	Intel Nehalem (quad core) processor per node											
<b>Infrastructure Networking</b>	2 InfiniBand connections											
<b>Non-volatile RAM (NVRAM)</b>	512 MB											
<b>Typical Power Consumption @ 100v</b>	400W											
<b>Typical Power Consumption @ 240v</b>	408W											
<b>Typical Thermal Rating</b>	1,370 BTU/hr											

## Isilon's Comprehensive Storage Solutions... Powerful, Yet Simple

The Isilon X-Series product line, along with the Isilon S-Series and NL-Series product lines, provide a complete portfolio of innovative solutions that drive business value for customers by optimizing their mission-critical applications, workflows, and processes. Isilon enables enterprises and research organizations worldwide to manage large and rapidly growing amounts of data in a highly-scalable, easy-to-manage, and cost-effective way.

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