



Isilon A200



Isilon A2000

# ISILON ARCHIVE SCALE-OUT NAS STORAGE

For most businesses today, data storage requirements are continuing to grow rapidly – nearly doubling every 2 to 3 years. 80% of this new data is file-based, unstructured data. This rapid data growth is straining often limited IT resources and increasing management complexity. Increasingly stringent compliance requirements is another factor driving the need for efficient data archiving solutions that can store and protect data for long-term retention. Organizations must also weigh the cost of storing archive data against the need for quick access.

To address these challenges, Dell EMC Isilon offers two highly efficient and massively scalable archive storage solutions – the **Dell EMC Isilon A200** is an ideal active archive storage solution that combines near-primary accessibility, value and ease of use – while the **Dell EMC Isilon A2000** is an ideal solution for high density, deep archive storage that safeguards data efficiently for long-term retention.

The Isilon A200 and the Isilon A2000 are both powered by the Isilon OneFS operating system and use an innovative modular architecture to provide an efficient, yet simple scale-out storage platform to store, manage and protect massive amounts of unstructured data, while dramatically reducing cost and complexity. Both platforms utilize a dense hardware design that provides 4 Isilon nodes within a single 4U chassis.

Isilon archive platforms can be combined with Isilon all-flash and hybrid storage systems into a single cluster that provides an efficient tiered storage solution. The Isilon A200 and A2000 also integrate easily into existing Isilon clusters.

**Capacity**<sup>1</sup>: The Isilon A200 provides between 120 TB to 480 TB per chassis and scales to 17 PB in a single Isilon cluster. The Isilon A2000 stores up to 800 TB per chassis and scales to over 28 PB in a single cluster.

**Efficiency**: Isilon scale-out storage delivers up to 80 percent storage utilization versus about 50 percent for traditional platforms. Isilon SmartDedupe data deduplication software enhances storage efficiency to further reduce your physical storage requirements.

**Simplicity**: You can install, configure, and have an Isilon solution online in less than 10 minutes. It's also simple to add an Isilon A200 or A2000 to an existing Isilon cluster. When needed, you can add an additional Isilon A200 or A2000 to the cluster to scale capacity in a matter of minutes. And with Isilon, your solution remains simple to manage no matter how large your data environment becomes.

**Data protection**: Isilon storage is highly resilient and offers N+1 through N+4 redundancy. With Isilon you may also choose from a variety of efficient and proven enterprise data backup and disaster recovery options.

**Security**: Isilon offers a broad range of robust security options including FIPS 140-2 level 2 self-encrypting drives, role-based access control (RBAC), secure access zones, SEC 17a-4 compliant WORM data immutability and integrated file system auditing support.

<sup>1</sup> Usable capacity will be lower than the raw capacity reflected in this specification sheet.

## ISILON A200 SPECIFICATIONS

ISILON A200 ATTRIBUTES & OPTIONS	2 TB HDD	4 TB HDD	8 TB HDD
CHASSIS CAPACITY <sup>1</sup>	120 TB	240 TB	480 TB
HDD DRIVES (3.5" SATA) PER CHASSIS	60	60	60
SELF-ENCRYPTING DRIVE (SED HDD) OPTION	Yes	Yes	Yes
OPERATING SYSTEM	Isilon OneFS 8.1 or later except for self-encrypting drive options which require Isilon OneFS 8.1.0.1 or later		
NUMBER OF NODES PER CHASSIS	4	4	4
CPU TYPE (PER NODE)	Intel® Pentium® Processor D1508		
ECC MEMORY (PER NODE)	16 GB	16 GB	16 GB
CACHE (PER NODE) SOLID STATE DRIVES (SSD) (400 GB)	1 or 2	1 or 2	1 or 2
SELF-ENCRYPTING DRIVE (SED SDD) OPTION	Yes	Yes	Yes
FRONT-END NETWORKING (PER NODE)	2 x 10GbE (SFP)		
INFRASTRUCTURE NETWORKING (PER NODE)	2 InfiniBand connections supporting QDR links or 2 X 10 GbE (SFP)		
TYPICAL POWER CONSUMPTION @ 240V (PER CHASSIS)	1060 Watts (@25°C)		
MAXIMUM POWER CONSUMPTION @ 240V (PER CHASSIS)	1460 Watts		
TYPICAL THERMAL RATING	3600 BTU/hr		

<sup>1</sup> Usable capacity will be lower than the raw capacity reflected in this specification sheet.

## ISILON A2000 SPECIFICATIONS

ISILON A2000 ATTRIBUTES & OPTIONS	10 TB HDD
CHASSIS CAPACITY <sup>1</sup>	800 TB
HDD DRIVES (3.5" SATA) PER CHASSIS	80
SELF-ENCRYPTING DRIVE (SED HDD) OPTION	Yes
OPERATING SYSTEM	Isilon OneFS 8.1 or later except for self-encrypting drive options which require Isilon OneFS 8.1.0.1 or later
NUMBER OF NODES PER CHASSIS	4
CPU TYPE (PER NODE)	Intel® Pentium® Processor D1508
ECC MEMORY (PER NODE)	16 GB
CACHE (PER NODE) SOLID STATE DRIVES (SSD) (400 GB)	1 or 2
SELF-ENCRYPTING DRIVE (SED SDD) OPTION	Yes
FRONT-END NETWORKING (PER NODE)	2 x 10GbE (SFP+)
INFRASTRUCTURE NETWORKING (PER NODE)	2 InfiniBand connections supporting QDR links or 2 X 10GbE (SFP+)
TYPICAL POWER CONSUMPTION @ 240V (PER CHASSIS)	1120 Watts (@25°C)
MAXIMUM POWER CONSUMPTION @ 240V (PER CHASSIS)	1520 Watts
TYPICAL THERMAL RATING	3800 BTU/hr

CLUSTER ATTRIBUTES	ISILON A200	ISILON A2000
NUMBER OF CHASSIS	1 to 36	1 to 36
NUMBER OF NODES	4 to 144	4 to 144
CLUSTER CAPACITY <sup>1</sup>	120 TB to 17.3 PB	800 TB to 28.8 PB
RACK UNITS	4 to 144	4 to 144

<sup>1</sup> Usable capacity will be lower than the raw capacity reflected in this specification sheet.

## PRODUCT ATTRIBUTES

SCALE-OUT ARCHITECTURE	Distributed, fully symmetric clustered architecture that combines modular storage with Isilon intelligent software
MODULAR DESIGN	4 self-contained nodes include compute assembly and HDDs in a 4U rack-mountable chassis. Integrates easily into existing Isilon clusters
OPERATING SYSTEM	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
HIGH AVAILABILITY	No single point of failure; self-healing design protects against disk or node failure; includes back-end intra-cluster failover
SCALABILITY	Scales from 4 to 144 nodes in a single cluster with up to 17 PB capacity for the Isilon A200 and up to 28 PB capacity for the Isilon A2000. Add an additional chassis to scale capacity in a matter of minutes.
DATA PROTECTION	FlexProtect™ file-level striping with support for N+1 through N+4 and mirroring data protection schemes
DATA REPLICATION	SyncIQ® fast and flexible file-based asynchronous replication
DATA RETENTION	SmartLock® policy-based retention and protection against accidental deletion
SECURITY	File system audit capability to improve security and control of your storage infrastructure and address regulatory compliance requirements
EFFICIENCY	SmartDedupe data deduplication option, which can reduce storage requirements by up to 35 percent
AUTOMATED STORAGE TIERING	Policy-based automated tiering options, including Isilon SmartPools and CloudPools software, to optimize storage resources and lower costs
NETWORK PROTOCOL SUPPORT	NFSv3, NFSv4, NFS Kerberized sessions (UDP or TCP), SMB1 (CIFS), SMB2, SMB3, SMB3-CA, Multichannel, HTTP, FTP, NDMP, SNMP, LDAP, HDFS, ADS, NIS reads/writes

## ENVIRONMENTAL SPECIFICATIONS

POWER SUPPLY	Dual-redundant, hot-swappable 1050W (low line) 1100W (high line) power supplies with power factor correction (PFC); rated for input voltages 90 - 130 VAC (low line) and 180-264 VAC (high line)
OPERATING ENVIRONMENT	Compliant with ASHRAE A3 data center environment guidelines
DIMENSIONS/WEIGHT	Isilon A200: Height: 7" (17.8 cm); Width: 17.6" (44.8 cm); Depth: (front NEMA rail to rear 2.5" SSD cover ejector): 35.8" (91.0 cm); Depth: (front of bezel to rear 2.5" SSD cover ejector): 37.6" (95.5 cm); Weight: 240 lbs. (108.9 kg)  Isilon A2000: Height: 7" (17.8 cm); Width: 17.6" (44.8 cm); Depth: (front NEMA rail to rear 2.5" SSD cover ejector): 40.4" (102.6 cm); Depth: (front of bezel to rear 2.5" SSD cover ejector): 42.2" (107.1 cm); Weight: 285 lbs. (129.3 kg)
MINIMUM SERVICE CLEARANCES	Front: 40" (88.9 cm), rear: 42" (106.7 cm)

## SAFETY AND EMI COMPLIANCE

### Statement of Compliance

This Information Technology Equipment is compliant with the electromagnetic compatibility (EMC) and product safety regulations/standards required by the countries in which the product is sold. EMC compliance is based on FCC part 15, CISPR22/CISPR24 and EN55022/EN55024 standards, including applicable international variations. EMC compliant Class A products are marketed for use in business, industrial, and commercial environments. Product Safety compliance is based on IEC 60950-1 and EN 60951-1 standards, including applicable national deviations.

This Information Technology Equipment is in compliance with EU RoHS Directive 2011/65/EU.

The individual devices used in this product are approved under a unique regulatory model identifier that is affixed to each individual device rating label, which may differ from any marketing or product family name in this datasheet.

For additional information see <https://support.emc.com> under the Safety & EMI Compliance Information tab.

### TAKE THE NEXT STEP

Contact your Dell EMC sales representative or authorized reseller to learn more about how Isilon archive scale-out NAS storage solutions can benefit your organization.

[Shop Dell EMC Isilon](#) to compare features and get more information.



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