

ISILON ARCHIVE SCALE-OUT NAS STORAGE



Isilon A200



Isilon A2000

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: 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.

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.

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

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 role-based access control (RBAC), secure access zones, SEC 17a-4 compliant WORM data immutability and integrated file system auditing support.

ISILON A200 SPECIFICATIONS

| ISILON A200 ATTRIBUTES & OPTIONS | 2 TB HDD | 4 TB HDD | 8 TB HDD |
|--|---|----------|----------|
| CHASSIS CAPACITY | 120 TB | 240 TB | 480 TB |
| HDD DRIVES (3.5" SATA) PER CHASSIS | 60 | 60 | 60 |
| 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 (400 GB) | 1 or 2 | 1 or 2 | 1 or 2 |
| 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 | | |

ISILON A2000 SPECIFICATIONS

| ISILON A2000 ATTRIBUTES & OPTIONS | 10 TB HDD |
|--|---|
| CHASSIS CAPACITY | 800 TB |
| HDD DRIVES (3.5" SATA) PER CHASSIS | 80 |
| 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 (400 GB) | 1 or 2 |
| 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 | 120 TB to 17.3 PB | 800 TB to 28.8 PB |
| RACK UNITS | 4 to 144 | 4 to 144 |

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: 24" (61 cm); depth: 35" (88.9 cm); weight: 240 lbs. (108.9 kg) Isilon A2000: Height: 7" (17.8 cm); width: 24" (61 cm); depth: 40" (101.6 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 hybrid scale-out NAS storage solutions can benefit your organization.

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

