SPECIFICATION SHEET

Isilon H400

Isilon H500

Isilon H5600

Isilon H600

ISILON HYBRID SCALE-OUT NAS STORAGE

Dell EMC Isilon hybrid storage platforms, powered by the Isilon OneFS operating system, use a highly versatile yet simple scale-out storage architecture to speed access to massive amounts of data, while dramatically reducing cost and complexity. Isilon hybrid storage is highly flexible and strikes the balance between large capacity and high-performance storage to provide support for a broad range of enterprise file workloads. Isilon hybrid storage is available in 4 product lines:

- **Dell EMC Isilon H400:** Provides a balance of performance, capacity and value to support a wide range of file workloads. Isilon H400 delivers up to 3 GB/s bandwidth per chassis and provides capacity options ranging from 120 TB to 480 TB per chassis[1].
- **Dell EMC Isilon H500:** This versatile hybrid platform delivers up to 5 GB/s bandwidth per chassis with a capacity ranging from 120 TB to 480 TB per chassis[1]. An ideal choice for organizations looking to consolidate and support a broad range of file workloads on a single platform.
- **Dell EMC Isilon H5600:** Combines massive scalability – 800 TB per chassis[1] – and up to 8 GB/s bandwidth – in an efficient, highly dense, deep 4U chassis. The Isilon H5600 is designed to support a wide range of demanding, large-scale file applications and workloads.
- **Dell EMC Isilon H600:** Designed to provide high performance at value, delivers up to 120,000 IOPS and up to 12 GB/s bandwidth per chassis. Ideal for high performance computing (HPC) workloads that don't require the extreme performance of all-flash.

All Isilon hybrid storage platforms are powered by the Isilon OneFS operating system and use a dense, modular architecture to provide a powerful, yet simple scale-out storage platform to speed access to unstructured data, while reducing cost and complexity.

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. Isilon's policy-based, automated tiering options allow you to optimize storage resources and further lower costs.

Flexibility: Isilon storage solutions supports all major protocols and data access methods including NFS, SMB, HDFS, HTTP, and FTP. This means that you can support a wide range of applications and workloads on a single Isilon platform.

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 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 file system auditing.

[1] Usable capacity will be lower than the raw capacity reflected in this specification sheet.

ISILON H400 SPECIFICATIONS

ISILON H400 ATTRIBUTES & OPTIONS	2 TB HDD	4 TB HDD	8 TB HDD
CHASSIS CAPACITY[1]	120 TB	240 TB	480 TB
HDD DRIVES (3.5" 4KN 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® Xeon® Processor D-1527		
ECC MEMORY (PER NODE)	64 GB	64 GB	64 GB
CACHE (PER NODE) SOLID STATE DRIVES (SSD) (800 GB, 1.6 TB, OR 3.2 TB)	1 or 2	1 or 2	1 or 2
SELF-ENCRYPTING DRIVE (SED SSD) OPTION	Yes	Yes	Yes
FRONT-END NETWORKING (PER NODE)	2 x 10GE (SFP+)		
INFRASTRUCTURE (BACK-END) NETWORKING (PER NODE)	2 InfiniBand connections supporting QDR links or 2 x 10 GbE (SFP+)		
TYPICAL POWER CONSUMPTION @ 240V (PER CHASSIS)	1120 Watts (@25°C)		
MAXIMUM POWER CONSUMPTION @ 240V (PER CHASSIS)	1560 Watts		
TYPICAL THERMAL RATING	3800 BTU/hr		

ISILON H500 SPECIFICATIONS

ISILON H500 ATTRIBUTES & OPTIONS	2 TB HDD	4 TB HDD	8 TB HDD
CHASSIS CAPACITY[1]	120 TB	240 TB	480 TB
HDD DRIVES (3.5" 4KN 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® Xeon® Processor E5-2630 v4		
ECC MEMORY (PER NODE)	128 GB	128 GB	128 GB

CACHE (PER NODE) SOLID STATE DRIVES (SSD) (1.6 TB, OR 3.2 TB)	1 or 2	1 or 2	1 or 2
SELF-ENCRYPTING DRIVE (SED SSD) OPTION	Yes	Yes	Yes
FRONT-END NETWORKING (PER NODE)	2 x 10GE (SFP+) or 2 x 40GbE (QSFP+)		
INFRASTRUCTURE (BACK-END) NETWORKING (PER NODE)	2 InfiniBand connections supporting QDR links or 2 x 40GbE (QSFP+)		
TYPICAL POWER CONSUMPTION @ 240V (PER CHASSIS)	1330 Watts (@25°C)		
MAXIMUM POWER CONSUMPTION @ 240V (PER CHASSIS)	1910 Watts		
TYPICAL THERMAL RATING	4,540 BTU/hr		

ISILON H5600 SPECIFICATIONS

ISILON H5600 ATTRIBUTES & OPTIONS	10 TB HDD
CHASSIS CAPACITY[1]	800 TB
HDD DRIVES (3.5" 4KN SATA) PER CHASSIS	80
SELF-ENCRYPTING DRIVE (SED HDD) OPTION	Yes
OPERATING SYSTEM	Isilon OneFS 8.2 or later
NUMBER OF NODES PER CHASSIS	4
CPU TYPE (PER NODE)	Intel® Xeon® Processor E5-2680 v4
ECC MEMORY (PER NODE)	256 GB
CACHE (PER NODE) SOLID STATE DRIVES (SSD) (1.6 TB, OR 3.2 TB)	1 or 2
SELF-ENCRYPTING DRIVE (SED SSD) OPTION	Yes
FRONT-END NETWORKING (PER NODE)	2 x 10GE (SFP+) or 2 x 40GbE (QSFP+)
INFRASTRUCTURE (BACK-END) NETWORKING (PER NODE)	2 x 40GbE (QSFP+)
TYPICAL POWER CONSUMPTION @ 240V (PER CHASSIS)	1668 Watts (@25°C)
MAXIMUM POWER CONSUMPTION @ 240V (PER CHASSIS)	1948 Watts
TYPICAL THERMAL RATING	5628 BTU/hr

ISILON H600 SPECIFICATIONS

ISILON H600 ATTRIBUTES & OPTIONS	600 GB SAS	1.2 TB SAS
CHASSIS CAPACITY[1]	72 TB	144 TB
SAS DRIVES (2.5" 512N) PER CHASSIS	120	120
SELF-ENCRYPTING DRIVE (SED (SAS) OPTION	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
CPU TYPE (PER NODE)	Intel® Xeon® Processor E5-2680 v4	
ECC MEMORY (PER NODE)	256 GB	256 GB
CACHE (PER NODE) SOLID STATE DRIVES (SSD) (1.6 TB, OR 3.2 TB)	1 or 2	1 or 2
SELF-ENCRYPTING DRIVE (SED SSD) OPTION	Yes	Yes
FRONT-END NETWORKING (PER NODE)	2 x 10GE (SFP+) or 2 x 40GbE (QSFP+)	
INFRASTRUCTURE (BACK-END) NETWORKING (PER NODE)	2 InfiniBand connections supporting QDR links or 2 x 40GbE (QSFP+)	
TYPICAL POWER CONSUMPTION @ 240V (PER CHASSIS)	1700 Watts (@25°C)	
MAXIMUM POWER CONSUMPTION @ 240V (PER CHASSIS)	1990 Watts	
TYPICAL THERMAL RATING	5840 BTU/hr	

CLUSTER ATTRIBUTES[2]	ISILON H400	ISILON H500	ISILON H5600	Isilon H600
NUMBER OF CHASSIS[2]	1 to 63	1 to 63	1 to 63	1 to 63
NUMBER OF NODES[2]	4 to 252	4 to 252	4 to 252	4 to 252
CLUSTER CAPACITY[1,2]	120 TB to 30.2 PB	120 TB to 30.2 PB	800 TB to 50.4 PB	72 TB to 9.0 PB
RACK UNITS[2]	4 to 252	4 to 252	4 to 252	4 to 252

[1] Usable capacity will be lower than the raw capacity reflected in this specification sheet.

[2] Cluster attributes in this table are based on use of Isilon OneFS 8.2 which supports up to 252 nodes in a single cluster.

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 storage media 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	With Isilon OneFS 8.2 and higher, Isilon clusters scale from 4 to 252 nodes in a single cluster. Add an additional chassis to scale performance and capacity in about a minute.
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

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ENVIRONMENTAL SPECIFICATIONS	
POWER SUPPLY	Isilon H400 and Isilon H500: 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) Isilon H5600 and H600: Dual-redundant, hot-swappable 1450W power supplies with power factor correction (PFC); rated for input voltage 180 – 265 VAC (optional rack mount step-up transformer for 90-130 VAC input regions)

OPERATING ENVIRONMENT	Compliant with ASHRAE A3 data center environment guidelines
DIMENSIONS/WEIGHT	Isilon H400, H500, H600: 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) Isilon H5600: 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); Isilon H400: Weight: 245 lbs. (111.1 kg) Isilon H500: Weight: 250 lbs. (113.4 kg) Isilon H5600: Weight: 285 lbs. (129.3 kg) Isilon H600: Weight: 215 lbs. (97.5 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.

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