



## ISILON X-SERIES

The Dell EMC Isilon X-Series, powered by the Isilon OneFS operating system, uses a highly versatile yet simple scale-out storage architecture to speed access to massive amounts of data, while dramatically reducing cost and complexity. The Isilon X-Series, featuring the Isilon X210, a 2U platform, is highly flexible and strikes the balance between large capacity and high-performance storage. The X-Series is an ideal solution for a wide range of high-throughput file applications and workloads. With SSD technology for file system metadata and file-based storage workflows, the Isilon X-Series also accelerates namespace-intensive operations.

**Agility:** The Isilon X-Series scales from tens of terabytes (TB) to a solution that support multiple petabytes (PB) and delivers up to 200 gigabytes per second (GB/s) of throughput within a single cluster.<sup>1</sup> When needed, you can scale capacity and performance in about a minute by adding a node to your cluster.

**Simplicity:** With its modular architecture, the Isilon X-Series makes deployment and management simple. Once racked, an X-Series cluster can be brought online in about 10 minutes. With a single pool of storage with a global namespace, an X-Series cluster eliminates the need to support multiple volumes and simplifies management. And with Isilon, your solution remains simple to manage no matter how large the data environment.

**Efficiency:** With Isilon, you can achieve highly efficient utilization rates—up to 80 percent compared to about 50 percent for traditional storage. Isilon's SmartDedupe data deduplication option allows you to further reduce your storage requirements by up to 30 percent. This translates into lower acquisition and operating costs.

**Security:** With optional FIPS 140-2 level 2 self-encrypting drives, the X-Series platform allows you to meet regulatory and compliance needs for securing data at rest without sacrificing performance or usability. Isilon also offers a wide range of other security and data protection options.

## ISILON X-SERIES NODE SPECIFICATIONS

ISILON X210 NODE ATTRIBUTES & OPTIONS Requires Isilon OneFS 7.2.1 operating system or later	1 TB HDD	2 TB HDD	3 TB HDD	4 TB HDD
CAPACITY <sup>1</sup>	6-12 TB	12-24 TB	18-36 TB	24-48 TB
HARD DRIVES (3.5" 7200 RPM)	6-12	6-12	6-12	6-12
SELF-ENCRYPTING DRIVE (SED HDD) OPTION (7200 RPM)	No	No	Yes	Yes
SOLID-STATE DRIVES (200, 400, OR 800 GB)	Up to 6	Up to 6	Up to 6	Up to 6
SELF-ENCRYPTING DRIVE (SED SSD) OPTION (800 GB)	No	No	Yes (0, 1, 2 or 4)	Yes (0, 1, 2 or 4)
SYSTEM ECC MEMORY	24 GB or 48 GB			
FRONT-END NETWORKING	2 x 1 Gigabit Ethernet and 2 x 10GbE (SFP+ or twin-ax copper)			
NETWORK INTERFACES	Isilon network interfaces support IEEE 802.3 standards for 10Gbps, 1Gbps, and 100Mbps network connectivity			
DRIVE CONTROLLER	SATA-3, 6 Gb/s			
CPU TYPE	Single Intel® Xeon® Processor E5-2407 @ 2.4 GHz, 4 Core			
INFRASTRUCTURE NETWORKING	2 InfiniBand connections supporting DDR and QDR links			
NON-VOLATILE RAM (NVRAM)	2 GB			
TYPICAL POWER CONSUMPTION @ 100V	400 Watts			
TYPICAL POWER CONSUMPTION @ 240V	400 Watts			
TYPICAL THERMAL RATING	1,370 BTU/hr			

CLUSTER ATTRIBUTES	X210
NUMBER OF NODES	3-144
CAPACITY <sup>1</sup>	18 TB to 6.9 PB
MEMORY	72 GB to 6.9 TB
RACK UNITS	6-288

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

## PRODUCT ATTRIBUTES

SCALE-OUT ARCHITECTURE	Truly distributed, fully symmetric clustered architecture that combines modular storage nodes with Isilon data and storage management software
MODULAR DESIGN	Self-contained nodes include server, software, and disks in your choice of 2U or 4U rack-mountable nodes
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 3 to 144 nodes in a single cluster with up to 20.7 PB capacity and 200 GB/s concurrent throughput; add a node to scale performance and capacity in 60 seconds
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
DATA ENCRYPTION OPTION	FIPS 140-2 level 2 validated self-encrypting drives (SEDs) with unique AES-256 bit strength keys assigned to each drive
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
PROTOCOL SUPPORT	NFSv3, NFSv4, NFS Kerberized sessions (UDP or TCP), SMB1 (CIFS), SMB2, SMB3 Multichannel, HTTP, FTP, NDMP, SNMP, LDAP, HDFS, ADS, NIS reads/writes
CLIENT SUPPORT	Microsoft® Windows®, Linux, UNIX®, Apple® Macintosh®
SOFTWARE COMPATIBILITY	Compatible with all Isilon licensable software including: CloudPools™, SyncIQ, SnapshotIQ™, SmartConnect™, SmartDedupe, SmartQuotas™, SmartPools®, InsightIQ™, and Aspera for Isilon

## ENVIRONMENTAL SPECIFICATIONS

POWER SUPPLY	X210: Dual-redundant, hot-swappable 650W power supplies with power factor correction (PFC)
OPERATING ENVIRONMENT	50° F to 95° F (10° C to 35° C), 5% to 95% relative humidity, non-condensing
DIMENSIONS/ WEIGHT	X210: height: 3.48" (8.8 cm), width: 18.87" (47.9 cm), depth: 28.5" (72.4 cm), weight: 61 lbs (27.7 kg)
MINIMUM SERVICE CLEARANCES	Front: 35" (88.9 cm), rear: 14" (35.6 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

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