

Isilon X-Series Specifications



PRODI	IOT	ATTD	וחו	ITEC

Clustered Architecture Truly distributed, fully symmetric clustered architecture that combines modular storage nodes with Isilon's intelligent software.

Modular Design Self-contained nodes include server, software and disks in a 2U rack-mountable node.

Distributed File 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 failures. Includes backend intracluster failover.

Scalability Initial cluster set-up in under 10 minutes. Add new nodes for performance and capacity in 60 seconds.

Protection Levels FlexProtect-AP file-level striping with support for N+1 through N+4 and mirroring data protection schemes.

Network Protocol Support NFS v3 (UDP or TCP), CIFS, FTP, HTTP reads/writes.

Client Support Microsoft® Windows , Linux, UNIX, Apple® Macintosh.

Front-End Networking Two (2) copper 1000 Base-T (Gigabit Ethernet) per node.

Intracluster Networking Two (2) InfiniBand® connections.

SOFTWARE HIGHLIGHTS

Automatic Content Migration AutoBalance automatically redistributes data and maximizes utilization across entire cluster when new nodes are added.

No downtime, application changes or manual intervention is required.

Accelerated Access to Content Files are striped across nodes in a cluster. SmartCache algorithms predict content access patterns and accordingly cache data

to ensure maximum performance for popular files in a huge and unified memory cache.

Flexible File Protection FlexProtect-AP allows data protection levels to be changed on the fly and can be set at cluster, directory and file levels.

Operates as a background operation, requiring no downtime.

Platform Extension TrueScale™ enables the addition of Isilon IQ Accelerator and EX 6000/9000/12000 extension products to scale performance and

capacity independently.

Management Powerful web-based management interface. Command line interface (Telnet/SSH). Front panel LCD.

Monitoring Support for SNMP v2/v3. Environmental monitoring system for monitoring fans, power, temperature, operating voltages and

node status. Web-based and LCD/LED monitoring of health, capacity and performance.

Alerting Email alerts to administrator(s). Email-home to Isilon for proactive customer support. Front panel LCD and LEDs. SNMP support.

Authentication and Security Support for Microsoft Active Directory Services (ADS), Network Information Service (NIS) and Lightweight Directory Access

Protocol (LDAP).

Data Integrity MediaScan proactive file-level health check continuously and automatically runs in the background to analyze and heal files,

ensuring long-term data integrity.

Backup and Restore Supports standard NDMP v3 and v4.

LICENSABLE APPLICATION SOFTWARE

SynclQTM Delivers extremely fast replication of files across multiple Isilon IQ clusters over WAN and LAN.

SnapshotIQTM Delivers breakthrough snapshot technology for simple, flexible and scalable data protection of large storage environments.

SmartConnectTM Maximizes performance and availability of client connections by providing automatic load balancing and NFS failover across

all Isilon IQ nodes within the cluster.

MigrationIQ™ Enables automatic and simple migration of digital content between storage tiers.

SmartQuotas[™] Delivers quotas and thin provisioning for clustered storage.

Aspera for Isilon IQ High performance wide area file and content delivery.

Isilon X-Series Specifications

ENVIRONMENTAL SPECIFICATIONS

Power Supply 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

Non-Operating Environment -40° F to 149° F (-40° C to 65° C), 5% to 95% relative humidity, non-condensing

Dimensions/Weight Height: 3.48" (8.8 cm), Width: 18.87" (47.9 cm), Depth: 28.5" (72.4 cm), Weight: 58.2 lbs / 26.4 kg

Minimum Service Clearances Front: 35" (88.9 cm), Rear: 14" (35.6 cm)

Single Node Attributes	Isilon IQ 1920			Isilon IQ 3000		Isilon IQ 6000		Isilon IQ 9000			Isilon IQ 12000				
Capacity		1.92 TB			3.00 TB		6.00 TB		9.00 TB			12.00 TB			
Сараспу		1.92 IB		3.00 18		6.00 18		9.00 18			12.00 18				
Hard Drives (hot-swappable)	Twelve (12) 3.5" SATA-2 160 GB HDD			elve (12) 3 N-2 250 GB		Twelve (12) 3.5" SATA-2 500 GB HDD		Twelve (12) 3.5" SATA-2 750 GB HDD			Twelve (12) 3.5" SATA-2 1 TB HDD				
Storage Expansion	N/A			N/A		YES — via Serial Attached SCSI (SAS)		YES — via Serial Attached SCSI (SAS)			YES — via Serial Attached SCSI (SAS)				
Typical Power Consumption @ 100v	3.6A			3.6A		3.6A		3.6A			3.6A				
Typical Power Consumption @ 240v	1.5A			1.5A		1.5A		1.5A		1.5A					
Typical Thermal Rating	12	250 BTU/ho	our	12	250 BTU/ho	our	12	250 BTU/ho	ur	1250 BTU/hour			1250 BTU/hour		
CPU Type	2.0 GHz Dual core Intel® Xeon™ processor 5130														
Front-End Networking	Two (2) copper 1000 Base-T (Gigabit Ethernet) per node														
Intracluster Networking	Two (2) InfiniBand® connections per node														
ECC Memory	4 GB of FBDiMM Cache														
Non-volatile RAM (NVRAM)	512 MB														
External Indicators	Cluster status and alert (LED) and front panel LCD														
Cluster Attributes (Nodes)	3 (min)	10	96 (max)	3 (min)	10	96 (max)	3 (min)	10	96 (max)	3 (min)	10	96 (max)	3 (min)	10	96 (max)
Capacity (TB)	5.7	19.0	184	9	30	288	18	60	576	27	90	864	36	120	1152
Memory (GB)	12	40	384	12	40	384	12	40	384	12	40	384	12	40	384
Rack Units (RU)	6U	20U	192U	6U	20U	192U	6U	20U	192U	6U	20U	192U	6U	20U	192U

INDUSTRY CERTIFICATIONS

North American (NA) Safety

UL/cUL Listing (UL 60950-1:2003, First Edition) CSA C22.2 No.60950-1-03

International Safety

CB Scheme IEC 60950-1 (2001) First Edition with all national deviations

European Union (EU) Safety

CE, Low Voltage Directive

NA EMC

US FCC Part 15/ Canada IC ICES-03

International EMC

EU EMC Directive (EN 55022 & EN 55024) Japan (VCCI) South Korea (MIC)

Isilon Systems, Inc. | www.isilon.com 3101 Western Ave, Seattle, WA 98121

Toll-Free: 877-2-ISILON • Phone: +1-206-315-7602 Fax: +1-206-315-7501 • Email: sales@isilon.com SYSTEMS

How breakthroughs begin.™