



How breakthroughs begin.™

Isilon X-Series Specifications



PRODUCT ATTRIBUTES

| | |
|---------------------------------|---|
| 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 | The fifth generation of 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

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| 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 | Isilon's clustered storage architecture enables the addition of Isilon IQ Accelerator-x 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 | E-mail alerts to administrator(s). E-mail 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

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| SyncIQ™ | Delivers extremely fast replication of files across multiple Isilon IQ clusters over WAN and LAN. |
| SnapshotIQ™ | Delivers breakthrough snapshot technology for simple, flexible and scalable data protection of large storage environments. |
| SmartConnect™ | Maximizes performance and availability of client connections by providing automatic load balancing and NFS failover across all Isilon IQ nodes within the cluster. |
| 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

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|-----------------------------------|---|
| 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 | | |
| Hard Drives (hot-swappable) | Twelve (12) 3.5" SATA-2 160 GB HDD | | | Twelve (12) 3.5" SATA-2 250 GB HDD | | | 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 | 1250 BTU/hour | | | 1250 BTU/hour | | | 1250 BTU/hour | | | 1250 BTU/hour | | | 1250 BTU/hour | | |
| CPU Type | 2.0 GHz Quad core Intel® Xeon™ processor | | | | | | | | | | | | | | |
| 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)
China (CCC)

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