

NEXIO™ NXIQ SERIES

Near-Line/Archive Clustered Storage



The NEXIO NXIQ™ clustered storage series addresses the full spectrum of storage needs in the most demanding television production and broadcast environments. Introduced as the first offering to emerge from Harris' OEM relationship with Isilon® Systems, the leader in clustered storage, NXIQ is a family of enterprise-class, near-line/archive storage solutions that combine an intelligent, distributed file system with modular, industry-standard hardware to deliver unmatched simplicity, resiliency and scalability.

The powerful NXIQ 1920, 3000, 6000, 9000 and 12000 systems scale from three to 96 nodes, and from 6 TB to 1.5 PB in a single file system while delivering greater than 10 Gb/s of total aggregate throughput. The entry-level NXIQ 200 system scales from three to 24 nodes, and from 6 TB to 48 TB.

With their clustered network architecture, ease of use, self-healing and highly redundant operations, all NXIQ products extend the reliability of the NEXIO™ platform by adding a high-performance, high-capacity and less costly alternative to a mirrored server solution. They're ideal for integrated broadcast television editing, news, post-production or transmission environments working with both standard-definition and high-definition content.

The heart of the NXIQ storage system is Isilon System's OneFS® distributed file system, which intelligently stripes data across nodes in a cluster to create a single, shared pool of storage that can be used across a wide range of applications, including the production, analysis, delivery and archiving of unstructured and file-based data. As new nodes and capacity are added to a cluster, NXIQ's exclusive AutoBalance feature automatically balances data across all nodes in a cluster in real time, removing throughput bottlenecks, maximizing performance and storage utilization, and eliminating downtime.

Each modular, self-contained NXIQ node possesses a powerful storage server, CPU, memory and network connectivity, all in a compact rack-mountable system. As additional NXIQ platform nodes are added to a cluster, all aspects of the cluster scale linearly, including capacity, throughput, memory and CPU processing power. NEXIO NXIQ nodes automatically work together, harnessing their collective power into a single, unified storage system.

Features

- Distributed file system creates a single, shared global namespace
- First and only truly symmetrical clustered storage architecture
- Scalable from 6 TB to 1.5 PB in a single file system
- Unmatched aggregate throughput from a single file system at more than 10 Gb/s
- TrueScale™ enables linear and independent scaling of both capacity and performance
- Support for InfiniBand® for intracluster communication (NXIQ 1920, 3000, 6000, 9000 and 12000 only)
- Industry-leading high availability for clustered storage systems
- Powerful, easy-to-use Web-based management
- 60-second scaling of both capacity and performance
- Industry-standard protocol support (NFS, CIFS, HTTP, FTP, NDMP, SNMP, LDAP, ADS, NIS)
- Full support for NXSyncIQ™, NXSnapshotIQ™, NXMigrationIQ™, NXSmartCon™ and NXSmartQuotas™ application software



Product Details

NXIQ 200 — Lowest Price

1RU chassis containing four 500-GB SATA HDD @ 2 TB capacity
 Minimum Configuration3 nodes (3RU), 6 TB
 Maximum Configuration.....24 nodes (24RU), 48 TB

NXIQ 1920 — Highest Performance

2RU chassis containing 12 160-GB SATA HDD @ ~2 TB capacity
 Minimum Configuration3 nodes (6RU), ~6 TB
 Maximum Configuration96 nodes (192RU), ~192 TB

NXIQ 3000 — Performance and Capacity

2RU chassis containing 12 250-GB SATA HDD @ 3 TB capacity
 Minimum Configuration3 nodes (3RU), 9 TB
 Maximum Configuration96 nodes (192RU), 288 TB

NXIQ 6000 — High Capacity

2RU chassis containing 12 500-GB SATA HDD @ 6 TB capacity
 Minimum Configuration3 nodes (6RU), 18 TB
 Maximum Configuration96 nodes (192RU), 576 TB

NXIQ 9000 — Higher Capacity

2RU chassis containing 12 750-GB SATA HDD @ 9 TB capacity
 Minimum Configuration3 nodes (6RU), 27 TB
 Maximum Configuration96 nodes (192RU), 864 TB

NXIQ 12000 — Highest Capacity

2RU chassis containing 12 1-TB SATA HDD @ 12 TB capacity
 Minimum Configuration3 nodes (6RU), 36 TB
 Maximum Configuration96 nodes (192RU), +1 PB

NXIQ EX Series — A family of cost-effective expansion modules for multitier, near-line, disk-to-disk backup and disaster-recovery needs

- Scalable to hundreds of terabytes
- Independent capacity scaling with TrueScale™

NXIQ EX6000

- Connects to NXIQ 6000 platform nodes via high-speed SAS connection
- NXIQ 6000 and EX6000 nodes provide 12 TB in 4RU form factor

NXIQ EX9000

- Connects to NXIQ 9000 platform nodes via high-speed SAS connection
- NXIQ 9000 and EX9000 nodes provide 18 TB in 4RU form factor

NXIQ EX12000

- Connects to NXIQ 12000 platform nodes via high-speed SAS connection
- NXIQ 12000 and EX12000 nodes provide 24 TB in 4RU form factor

NXIQ Accel — Using dynamic performance acceleration technology, NXIQ Accel accelerators seamlessly add performance to an NXIQ storage cluster on the fly — in less than 15 seconds.

- Scale CPU, memory and throughput at a third of the cost of traditional storage systems
- Unmatched aggregate throughput from a single file system, modularly scaling to more than 10 Gb/s
- Linear and independent scaling of performance with TrueScale™ technology?
- InfiniBand® for high-speed, low-latency intracluster communication
- Industry-standard protocol support (NFS, CIFS, HTTP, FTP, NDMP, SNMP, LDAP, ADS, NIS)

For more information please visit www.broadcast.harris.com/nexio.

Product Specifications

Specifications and designs are subject to change without notice.

NXIQ 200 and NXIQ Accel

Dimensions

Height.....1.72 in. (4.4 cm)
 Width.....18.87 in. (47.9 cm)
 Depth.....28.5 in. (72.4 cm)
 Weight.....32 lbs (14.5 kg)

Power

Supply.....Single 400 W with power factor correction
 AC Input/Power Consumption.....100 to 240 V AC (60 to 50 Hz)
 Typical2 to 1 A
 Maximum.....4 to 1.5 A
 Thermal Rating.....1,350 BTU/hr

Minimum Service Clearances

Front.....35 in. (88.9 cm)
 Rear.....7 in. (18 cm)

NXIQ 1920, 3000, 6000, 9000, 12000, EX6000, EX9000 and EX12000

Dimensions

Height.....3.48 in. (8.8 cm)
 Width.....18.87 in. (47.9 cm)
 Depth.....28.5 in. (72.4 cm)
 Weight.....58.2 lbs (26.4 kg)

Power

Supply.....650 W with power factor correction dual-redundant,
 hot-swappable
 AC Input/Power Consumption.....100 to 240 V AC, (60 to 50 Hz)
 Typical3.6 to 1.5 A
 Thermal Rating1,250 BTU/hr

Minimum Service Clearances

Front.....35 in. (88.9 cm)
 Rear.....14 in. (35.6 cm)

Environmental Characteristics (for all NXIQ products)

Operating Environment.....50° to 95° F (10° to 35° C)
 5% to 95% relative humidity non-condensing
 Non-Operating Environment.....-40° to 149° F (-40° to 65° C)
 5% to 95% relative humidity non-condensing

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