



Nextra™ Overview

Nextra™ is an enterprise data storage system built from a grid of standard Intel/Linux components, which are connected in an any-to-any topology using Gigabit Ethernet. This ground-breaking architecture provides outstanding performance, scalability, availability and reliability. Based on SATA disks, Nextra applies patented technologies, including its unique parallel architecture, caching algorithms and more, to compensate for SATA's

performance disadvantage and to achieve performance levels beyond FC-based systems.

The Nextra system provides a true multi-tier solution, serving and protecting data at the highest levels of quality, and at extremely attractive TCO. As such, the Nextra system eliminates the expense and burden of employing ILM (Information Lifecycle Management) and TSM (Tiered Storage Management).

Capacity and Resources

Number of Disks	120
Number of FC Ports	12
Number of iSCSI Ports	6
Raw Capacity	120TB
Net Capacity	51TB*
Internal Switching Capacity	44 Gbit/sec
Cache Memory	32 Gb
Cache to Disk Bandwidth	128 Gbit/sec
CPUs	22

* Including mirroring and spare capacity of three disks and one module.



Functional specifications

Protection Features

- » Truly no single point of failure
- » All system components (disks, modules, UPS units, switches) are hot-swappable
- » Data mirroring
- » Self healing:
 - 30-minute rebuild time after 1TB disk failure (greatly minimizes exposure to double-failure)
 - Rebuild after module failure

Functionality

- » Differential snapshots:
 - Up to 16,000 snapshots in the system
 - Instant snapshot creation
 - Writable snapshots
 - Near-zero performance overhead with snapshots
- » Synchronous remote copy
- » Instant volume copy

Management

- » Two Ethernet ports for management connectivity
- » GUI management software
- » Command line management software
- » Email, SMS and SNMP notifications

Connectivity

- » Fiber Channel:
 - Rates: 1 Gbit/sec, 2 Gbit/sec
 - Multi-mode and single-mode support
- » iSCSI over Gigabit Ethernet
- » SCSI-3 protocol for both FC and iSCSI

Physical features

Disks

- » Interface: SATA II
- » 7200 RPM
- » Capacities: 1TB

Physical Specifications

- » Height: 208 cm
- » Width: 60 cm
- » Depth: 107 cm
- » Back door clearance: 100 cm
- » Front door clearance: 120 cm

Power and Cooling

- » Input voltage: 100 to 240 VAC
- » Typical power consumption: 5 KW
- » Maximal power consumption: 6.5 KW
- » Heat dissipation: 24K BTU/hour
- » Redundant power feed

Operating Environment

- » Temperature: 10 - 30°C
- » Altitude: 0 - 3000 m
- » Humidity: 20 - 80% non-condensing



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