

Lenovo Storage D1212

Powerful storage JBOD/expansion unit: 3.5-inch

Lenovo™



High-Performance, High-Capacity DAS

The Lenovo Storage D1212 has the flexibility and capacity to handle many different types of workloads. You can start with one D1212 enclosure containing up to 12x 3.5-inch drives as a simple JBOD, and later daisy-chain up to 8 enclosures per SAS Chain (using multiple ports). One chain supports up to 96 drives.

Supported drives include 10,000rpm and 7,200rpm HDDs, secure self-encrypting 7,200rpm SED HDDs, and high-performance/high-capacity SSDs for read-intensive workloads. The D1212 supports RAID-0, 1, 10, 5, 50, 6, and 60, using a variety of RAID HBAs. A single chain can contain a combination of HDDs and SSDs with multiple speeds and capacities. If 15,000rpm and 2.5-inch HDDs are required, D1224 expansion units may be included in the chain.

Best Value for Storage Capacity

The D1212 is optimized for performance at an affordable price. High-capacity 3.5-inch NL drives offer up to 120TB* of “cold” or archive storage in only 2U, and 960TB* per SAS Chain in 16U. 10,000rpm 12Gbps SAS drives offer the speed needed for many performance-intensive workloads, and SSDs provide the extreme throughput necessary for the most I/O-intensive jobs, along with high capacity.

The D1212 shares common parts with D1224 DAS enclosures. This simplifies servicing and reduces spare parts on hand, helping to reduce costs further. You can also save money on file/storage servers by deploying one server running virtualized environments with up to 960TB* of DAS capacity, rather than using multiple servers with one JBOD apiece.

Easy to Deploy and Highly Available

Simply cable-connect new units and they come online immediately (OS-dependent) with instant drive identification. Virtual machines can share these expansion chassis as well.

And because storage is useless when it's offline, the D1212 uses ruggedized components that are designed for 99.999 percent availability and NEBS3 compliance, along with hot-swap drives and hot-swap/redundant power supplies for maximum uptime. Redundant I/O modules with failover complete the package.

Lenovo Storage D1212

Specifications

Form Factor	2U
Dual Expansion Modules	Dual 12Gb SAS standard (MiniSAS-HD SFF 8644), with active/active failover
Supported Drives	12 hot-swap SAS 3.5-inch drives: 900GB 10,000rpm HDDs (2.5-inch drive in 3.5-inch bay); 2TB, 4TB, 6TB, 8TB, or 10TB 7,200rpm NL HDDs*; 4TB 7,200rpm NL SED HDDs; 400GB, 10 DWD SSDs* (2.5-inch drive in 3.5-inch tray)
Storage Capacity (per D1212 enclosure—up to 8 enclosures supported per HBA port)	Up to 10.8TB – 10,000rpm HDDs; Up to 120TB – 7,200rpm NL SAS HDDs*; Up to 48TB – 7,200rpm NL SAS SED HDDs; Up to 4.8TB SSDs
Expandability (via Daisy-Chain)	Up to 8 D1212 units per SAS Chain
HBAs Supported	ThinkServer 8885e PCIe 12Gb SAS Adapter (PMC 8885E chipset); ThinkServer LSI 93008-e (12Gb; LSI SAS 31088); Lenovo N2225 SAS/SATA HBA (12Gb) Adapter for System x (12Gb; LSI SAS 3008); N2226 SAS/SATA HBA (12Gb) Adapter for System x (LSI SAS 3008); ServeRAID M5225-2GB SAS/SATA Controller for System x (LSI SAS 3108); Avago SAS 9300-8e Host Bus Adapter (12Gb; LSI SAS 3008); Avago SAS 9300-16e Host Bus Adapter (12Gb; LSI SAS 3008 x2); Avago SAS 9302-16e Host Bus Adapter (12Gb; LSI SAS 3008 x2); Avago MegaRAID SAS 9380-8e LSI SAS3108); Avago MegaRAID SAS 9380-4i4e LSI SAS3108)
RAID Support	RAID-0, 1, 10, 5, 50, 6, 60 (HBA-dependent)
Power Supplies and Fans	Two 580W (1+1) hot-swap/redundant 80 Plus Gold power supplies; two integrated fans per power supply
Back Panel Connectors	Each expansion module (x2) includes 1 Ethernet management port, 3x MiniSAS HD Connector (SFF 8644), It can be configured as in/ingress or out/egress port by SAS zoning mode setting.
Form Factor/Dimension/Weight	2U/Height: 89.9mm (3.5 in.); Width: 493mm (19 in.); Depth: 630mm (24.8 in.)/Weight: min. 16.8kg (37.0 lbs); max. 26kg (57.2lbs)
Limited Warranty	3- or 5-year Limited Warranty, 9x5 Next Business Day (upgradeable), or 9x5x4, or 24/7x4.

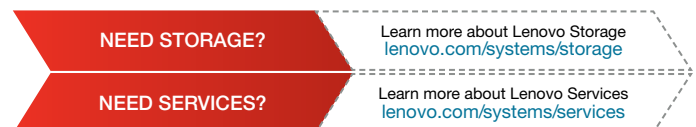
* Planned for 4Q/2016 availability.

Why Lenovo

Lenovo is a \$46 billion global Fortune 500 company and a leader in providing innovative consumer, commercial, and enterprise technology. Lenovo enterprise systems deliver industry-leading performance, reliability, and security in virtualized and cloud environments for analytics, database, virtual desktop, infrastructure, and web workloads. Lenovo also offers simplified and extensible systems management tools so you can manage your infrastructure on your own terms. Consistently ranked #1 in reliability and customer satisfaction, the Lenovo enterprise server, storage, and networking portfolio provides the hardware for businesses that never stand still.

For More Information

To learn more about the Lenovo Storage D1212, contact your Lenovo representative or Business Partner or visit: lenovo.com/systems/networking



© 2016 Lenovo. All rights reserved.

Availability: Offers, prices, specifications and availability may change without notice. Lenovo is not responsible for photographic or typographic errors. **Warranty:** For a copy of applicable warranties, write to: Warranty Information, 500 Park Offices Drive, RTP, NC, 27709, Attn: Dept. ZPYA/B600. Lenovo makes no representation or warranty regarding third-party products or services. **Trademarks:** Lenovo, the Lenovo logo, System x, and ThinkServer are trademarks or registered trademarks of Lenovo. Microsoft and Windows are registered trademarks of Microsoft Corporation. Intel, the Intel logo, Xeon and Xeon Inside are registered trademarks of Intel Corporation in the U.S. and other countries. Other company, product, and service names may be trademarks or service marks of others.