IBM System Storage EXP2500 Express

Gain cost-effective and scalable storage in an easy-to-use SAS enclosure

Highlights

- Based on 6 Gbps SAS interface connectivity, IBM® System Storage® EXP2500 Express® provides an affordable external disk solution for direct attachment to IBM System x® and IBM BladeCenter® servers via ServeRAID controllers
- Get flexible support for high-performance and nearline disk drives, as well as solid-state drives (SSDs)
- Improve scalability with a high-density 2U enclosure that supports up to twelve 3.5-inch disk drives on IBM System Storage EXP2512 Express and twenty-four 2.5-inch disk drives on IBM System Storage EXP2524 Express
- Deliver high availability and reliability with dual-AC power supplies and fans

IBM has combined best-of-breed development with leading 6 Gbps host interface and drive technology in the IBM System Storage EXP2500 Express, a cost-effective, fully integrated complement to IBM System x and IBM BladeCenter servers. Offering substantial improvements at a price that will fit most budgets, the EXP2500 Express delivers superior price-to-performance ratios, functionality, scalability and ease-of-use for the entry-level storage user.

Easy to manage, flexible and extendable, IBM System Storage EXP2500 Express is designed to work as a direct-attached external disk storage solution for IBM System x and IBM BladeCenter servers using ServeRAID controllers. EXP2500 Express helps organizations enhance capacity seamlessly to address their current and future data needs.

EXP2500 Express is a performance-oriented SAS platform designed to increase both bandwidth and throughput with next-generation storage technology. It also includes support for IPv6, meeting the latest government requirements to help ensure compliance.

EXP2500 Express offers an opportunity for organizations with important budget concerns to solve their data growth needs with a cost-effective device that can meet or even exceed competitive SAS 2.0 offerings in the marketplace.

IBM System Storage EXP2500 Express at a glance	
Model	1747-HC1 (PN 174712X)—System Storage EXP2512 Express Storage Enclosure 1747-HC2 (PN 174724X)—System Storage EXP2524 Express Storage Enclosure
RAID controller	EXP2500 Express supports: Direct attachment to selected System x servers using: • IBM ServeRAID M5025 SAS/SATA Controller (part number 46M0830) • IBM ServeRAID M5120 SAS/SATA Controller (PN 81Y4478) Direct attachment to select BladeCenter servers using: • BladeCenter SAS Connectivity Module (part number 39Y9195) • IBM ServeRAID MR10ie (ClOv) Controller (part number 46C7167)
Drive interface	SAS
Supported drives	EXP2512: 300 GB, 450 GB and 600 GB 15k rpm 6 Gbps SAS 3.5-inch HDD 1 TB, 2 TB, 3 TB and 4 TB 7.2k rpm 6 Gbps SAS nearline 3.5-inch HDD* EXP2524: 146 GB and 300 GB 15k rpm 6 Gbps SAS 2.5-inch HDD 600 GB, 900 GB and 1.2 TB 10k rpm 6 Gbps SAS 2.5-inch HDD 1 TB 7.2k rpm 6 Gbps SAS nearline 2.5-inch HDD 200 GB and 400 GB 6 Gbps SAS 2.5-inch SSD
RAID levels	Supports RAID levels supported by ServeRAID Controllers: Standard 0, 1, 10, 5, 50 Optional 6, 60
Maximum drives supported	12 in the EXP2512 enclosure 24 in the EXP2524 enclosure
Fans and power supplies	Two hot-swappable 515 watt (115 - 230 V ac) power supplies
Rack support	19-inch, industry-standard rack

IBM System Storage EXP2500 Express at a glance	
Management software	Mega RAID storage manager
Warranty	Three-year limited warranty, customer-replaceable units, onsite service, next business day 9x5, service upgrades available
Size	Height: 8.7 cm (3.4 in.), Depth: 55.6 cm (21.9 in.), Width: 44.6 cm (17.6 in.)
Environment	Air temperature: EXP2500 on: 10°C – 35°C (50°F – 95°F); altitude: 30.5 m (100 ft) below to 3,000 m (9,840 ft) above sea level; temperature change: 10°C (18°F) per hour EXP2500 off: 10°C – 50°C (14°F – 120°F); maximum altitude: 3,000 m (9,840 ft); temperature change: 15°C (27°F) per hour Humidity: EXP2500 on: 20% – 80% EXP2500 off: 10% – 90% Maximum dew point: 26°C (79°F) Maximum humidity gradient: 10 percent per hour Acoustical noise emissions: For maximum system configurations Sound power (idling): 6.1 bels Sound power (operating): 6.1 bels Sound pressure (idling): 48 dBA Sound pressure (operating): 48 dBA
Heat output	Approximate heat output in British thermal units (BTU) per hour: Minimum configuration: 188 BTU (55 watts) Maximum configuration: 821 BTU (240 watts)

For more information

To learn more about the IBM System Storage EXP2500 Express, please contact your IBM marketing representative or IBM Business Partner, or visit the following website: **ibm.com**/systems/storage/disk/exp2500

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* 3 TB and 4 TB drives not supported in BladeCenter configurations

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