



Highlights

- Easy installation and management with storage expansion technology designed for IBM System x® direct attachment via ServeRAID M5025 adapter
 - Next-generation 6 Gbps Serial Attached SCSI (SAS) host and drive interfaces enable infrastructure simplification
 - Support for flexible high-performance and nearline disk drive options
 - High capacity, with support for multiple enclosures per configuration
 - High-density 2U enclosure designed for supporting up to 12 3.5" disk drives on model EXP2512 Express and 24 2.5" disk drives on model EXP2524 Express
 - High availability and reliability, with dual AC power supplies and fans
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IBM System Storage EXP2500 Express

Cost-effective and scalable next-generation storage expansion enclosure

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 System x 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, the EXP2500 Express is designed to work as a direct-attach solution for IBM System x servers via ServeRAID host bus adapters. The EXP2500 Express help organizations enhance capacity seamlessly to address their current and future data needs.

The new EXP2500 Express is a performance-oriented SAS platform designed to help increase both bandwidth and throughput with next-generation storage technology.



The EXP25000 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.



Model	1747-HC1 (PN 174712X)—IBM System Storage EXP2512 Express Storage Enclosure 1747-HC2 (PN 174724X)—IBM System Storage EXP2524 Express Storage Enclosure
RAID controller	This expansion unit connects directly to selected System x servers using the IBM ServeRAID M5025 SAS/SATA Controller
Cache per controller	N/A
Host interface	N/A
Drive interface	SAS
Supported drives	<p>EXP2512:</p> <ul style="list-style-type: none"> 300 GB 15,000 rpm 6 Gb SAS 3.5" HDD 450 GB 15,000 rpm 6 Gb SAS 3.5" HDD 600 GB 15,000 rpm 6 Gb SAS 3.5" HDD 1 TB 7,200 rpm 6 Gb SAS NL 3.5" HDD 2 TB 7,200 rpm 6 Gb SAS NL 3.5" HDD <p>EXP2524:</p> <ul style="list-style-type: none"> 146 GB 15,000 rpm 6 Gb SAS 2.5" HDD 300 GB 10,000 rpm 6 Gb SAS 2.5" HDD 600 GB 10,000 rpm 6 Gb SAS 2.5" HDD 500 GB 7,200 rpm 6 Gb SAS NL 2.5" HDD

RAID levels	Supports RAID levels supported by M5025 Controller: Standard 0, 1, 10, 5, 50 Optional 6, 60
Storage partitions	N/A
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", industry-standard rack
Management software	Mega RAID storage manager
Warranty	Three-year parts and labor warranty
Size	Height: 8.7 cm (3.4 in.), Depth: 55.6 cm (21.9 in.), Width: 44.6 cm (17.6 in.)
Environment	<p>Air temperature: EXP2500 on: 10° to 35° C (50° to 95° F); altitude: 30.5 (100 ft) below to 3000 m (9840 ft) above sea level; temperature change: 10° C (18° F) per hour EXP2500 off: 10° to 50° C (14° to 120° F); maximum altitude: 3000 m (9840 ft); temperature change: 15 °C (27° F) per hour</p> <p>Humidity: EXP2500 on: 20% to 80% EXP2500 off: 10% to 90% Maximum dew point: 26° C (79° F) Maximum humidity gradient: 10% per hour</p> <p>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</p>
Heat output	Approximate heat output in British thermal units (Btu) per hour: Minimum configuration: 188 Btu (55 watts) Maximum configuration 821 Btu (240 watts)



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ibm.com/systems/storage/disk/exp2500

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