

## Storwize V5000E

## IBM Storwize V5000 at a glance

Specifications	IBM Storwize V5030E with IBM Spectrum Virtualize Software	IBM Storwize V5010E with IBM Spectrum Virtualize Software
User interface	Web-based GUI	Web-based GUI
Single or dual controller	Dual (Active/Active)	Dual (Active/Active)
Connectivity (standard)	10 Gb iSCSI (On the motherboard)	1 Gb iSCSI (On the motherboard)
Connectivity (optional)	16 Gb/s Fibre Channel     12 Gb/s SAS     25 Gb/s iSCSI (iWARP or RoCE)     10 Gb/s iSCSI	16 Gb/s Fibre Channel     12 Gb/s SAS     25 Gb/s iSCSI (iWARP or RoCE)     10 Gb/s iSCSI
Cache per control enclosure /clustered system	32GB or 64GB / 64GB or 128GB	16 GB, 32 GB or 64 GB
Drives supported	Small form-factor 2.5-inch disk drives:  • 900 GB, 1.2 TB, 1.8 TB and 2.4 TB @ 10k rpm  • 2 TB @ 7.2k rpm SAS nearline Large form-factor 3.5-inch disk drives:  • 900 GB, 1.2 TB, 1.8 TB and 2.4 TB @ 10k rpm, SAS (2.5-inch drive in a 3.5-inch drive carrier)  • 4 TB, 6 TB, 8 TB, 10 TB, 12 TB, 14 TB @ 7.2k rpm 2.5-inch flash drives:  • 800 GB, 1.92 TB, 3.84 TB, 7.68 TB, 15.36 TB and 30.72 TB	Small form-factor 2.5-inch disk drives:  • 900 GB, 1.2 TB, 1.8 TB and 2.4 TB @ 10k rpm  • 2 TB @ 7.2k rpm SAS nearline Large form-factor 3.5-inch disk drives:  • 900 GB, 1.2 TB, 1.8 TB and 2.4 TB @ 10k rpm, SAS (2.5-inch drive in a 3.5-inch drive carrier)  • 4 TB, 6 TB, 8 TB, 10 TB, 12 TB, 14 TB @ 7.2k rpm 2.5-inch flash drives:  • 800 GB, 1.92 TB, 3.84 TB, 7.68 TB, 15.36 TB and 30.72 TB
Maximum drives supported	Maximum of 760 drives per system and 1,520 drives in two-way clusters:  • Small form-factor enclosure: 24 x 2.5-inch drives  • Large form-factor enclosure: 12 x 3.5-inch drives  • High-density expansion enclosure: 92 x 3.5-inch drives	Maximum of 392 drives per system:  • Small form-factor enclosure: 24 x 2.5-inch drives  • Large form-factor enclosure: 12 x 3.5-inch drives  • High-density expansion enclosure: 92 x 3.5-inch drives
Maximum expansion enclosure capacity	Up to 20 standard expansion enclosures per controller     Up to 8 high-density expansion enclosures per controller	Up to 10 standard expansion enclosures per controller     Up to 4 high-density expansion enclosures per controller
RAID levels	RAID levels 0,1,10 with distributed RAID 5 (CLI Only) and 6.	RAID levels 0,1,10 with distributed RAID 5 (CLI Only) and 6.
Fans and power supplies	Fully redundant, hot-swappable	Fully redundant, hot-swappable
Rack support	Standard 19-inch	Standard 19-inch
Advanced functions included with each system	Virtualization of internal storage Data reduction pools with thin provisioning, UNMAP, compression and deduplication One-way data migration Dual-system clustering	Virtualization of internal storage     Data reduction pools with thin provisioning and UNMAP     One-way data migration
Additional available advanced functions	(90-day trial available except encryption)     Easy Tier     FlashCopy     Remote mirroring     Encryption	(90-day trial available except encryption)     Easy Tier     FlashCopy     Remote mirroring
Size	8.7 cm (3.4 in.) H x 48.3 cm (19.0 in.) W x 55.6 cm (21.9 in.) D  Approximate weight:  Large form-factor control enclosure:  Empty: 18.0 kg (39.6 lb)  Fully configured: 28.3 kg (62.2 lb)  Large form-factor expansion enclosure:  Empty: 16.4 kg (36.1 lb)  Fully configured: 26.7 kg (58.8 lb)  Small form-factor control enclosure:  Empty: 19.0 kg (41.8 lb)  Fully configured: 27.3 kg (60.0 lb)  Small form-factor expansion enclosure:  Empty: 16.7 kg (36.7 lb)  Fully configured: 25.0 kg (55.2 lb)	8.7 cm (3.4 in.) H x 48.3 cm (19.0 in.) W x 55.6 cm (21.9 in.) D  Approximate weight:  Large form-factor control enclosure:  Empty: 18.0 kg (39.6 lb)  Fully configured: 28.3 kg (62.2 lb)  Large form-factor expansion enclosure:  Empty: 16.4 kg (36.1 lb)  Fully configured: 26.7 kg (58.8 lb)  Small form-factor control enclosure:  Empty: 19.0 kg (41.8 lb)  Fully configured: 27.3 kg (60.0 lb)  Small form-factor expansion enclosure:  Empty: 16.7 kg (36.7 lb)  Fully configured: 25.0 kg (55.2 lb)

## **IBM Systems** Data Sheet



Specifications	IBM Storwize V5030E with IBM Spectrum Virtualize Software	IBM Storwize V5010E with IBM Spectrum Virtualize Software
Operating environment	Air temperature:  Operating: 10°C - 35°C (50°F - 95°F) at 30.5 m below to 3,000 m above sea level (100 ft below to 9,840 ft above)  Non-operating: -10°C - 50°C (14°F - 125°F) Relative humidity:  Operating: 20% - 85%  Non-operating: 8% - 80%	Air temperature:  Operating: 10°C - 35°C (50°F - 95°F) at 30.5 m below to 3,000 m above sea level (100 ft below to 9,840 ft above)  Non-operating: -10°C - 50°C (14°F - 125°F) Relative humidity:  Operating: 20% - 85%  Non-operating: 8% - 80%
Warranty	Hardware:  - Three-year warranty with 9 to 5 next-business-day response  - Tier 1 customer-replaceable units and on-site repairs  - Warranty service upgrades available Post-warranty support available Customer setup (initial installation and field upgrades)	Hardware:  - Three-year warranty with 9 to 5 next-business-day response  - Tier 1 customer-replaceable units and on-site repairs  - Warranty service upgrades available Post-warranty support available Customer setup (initial installation and field upgrades)
Operating environment	For a list of currently supported servers, operating systems, host bus adapters, clustering applications, and SAN switches and directors, refer to the IBM System Storage Interoperation Center at: ibm.com/systems/support/storage/config/ssic	For a list of currently supported servers, operating systems, host bus adapters, clustering applications, and SAN switches and directors, refer to the IBM System Storage Interoperation Center at: ibm.com/systems/support/storage/config/ssic
ISV solutions	For a list of high-quality solutions with IBM partner ISVs, including access to solution briefs and white papers, refer to the ISV Solutions Resource Library: https://www.ibm.com/partnerworld/wps/pub/systems/whyibm/programs	For a list of high-quality solutions with IBM partner ISVs, including access to solution briefs and white papers, refer to the ISV Solutions Resource Library: https://www.ibm.com/partnerworld/wps/pub/systems/whyibm/programs

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