

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)	<ul style="list-style-type: none"> • 16 Gb/s Fibre Channel • 12 Gb/s SAS • 25 Gb/s iSCSI (iWARP or RoCE) • 10 Gb/s iSCSI 	<ul style="list-style-type: none"> • 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	<p>Small form-factor 2.5-inch disk drives:</p> <ul style="list-style-type: none"> • 900 GB, 1.2 TB, 1.8 TB and 2.4 TB @ 10k rpm • 2 TB @ 7.2k rpm SAS nearline <p>Large form-factor 3.5-inch disk drives:</p> <ul style="list-style-type: none"> • 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 <p>2.5-inch flash drives:</p> <ul style="list-style-type: none"> • 800 GB, 1.92 TB, 3.84 TB, 7.68 TB, 15.36 TB and 30.72 TB 	<p>Small form-factor 2.5-inch disk drives:</p> <ul style="list-style-type: none"> • 900 GB, 1.2 TB, 1.8 TB and 2.4 TB @ 10k rpm • 2 TB @ 7.2k rpm SAS nearline <p>Large form-factor 3.5-inch disk drives:</p> <ul style="list-style-type: none"> • 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 <p>2.5-inch flash drives:</p> <ul style="list-style-type: none"> • 800 GB, 1.92 TB, 3.84 TB, 7.68 TB, 15.36 TB and 30.72 TB
Maximum drives supported	<p>Maximum of 760 drives per system and 1,520 drives in two-way clusters:</p> <ul style="list-style-type: none"> • 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 	<p>Maximum of 392 drives per system:</p> <ul style="list-style-type: none"> • 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	<ul style="list-style-type: none"> • Up to 20 standard expansion enclosures per controller • Up to 8 high-density expansion enclosures per controller 	<ul style="list-style-type: none"> • 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	<ul style="list-style-type: none"> • Virtualization of internal storage • Data reduction pools with thin provisioning, UNMAP, compression and deduplication • One-way data migration • Dual-system clustering 	<ul style="list-style-type: none"> • Virtualization of internal storage • Data reduction pools with thin provisioning and UNMAP • One-way data migration
Additional available advanced functions	<ul style="list-style-type: none"> • (90-day trial available except encryption) • Easy Tier • FlashCopy • Remote mirroring • Encryption 	<ul style="list-style-type: none"> • (90-day trial available except encryption) • Easy Tier • FlashCopy • Remote mirroring
Size	<p>8.7 cm (3.4 in.) H x 48.3 cm (19.0 in.) W x 55.6 cm (21.9 in.) D</p> <p>Approximate weight:</p> <ul style="list-style-type: none"> - Large form-factor control enclosure: <ul style="list-style-type: none"> • Empty: 18.0 kg (39.6 lb) • Fully configured: 28.3 kg (62.2 lb) - Large form-factor expansion enclosure: <ul style="list-style-type: none"> • Empty: 16.4 kg (36.1 lb) • Fully configured: 26.7 kg (58.8 lb) - Small form-factor control enclosure: <ul style="list-style-type: none"> • Empty: 19.0 kg (41.8 lb) • Fully configured: 27.3 kg (60.0 lb) - Small form-factor expansion enclosure: <ul style="list-style-type: none"> • Empty: 16.7 kg (36.7 lb) • Fully configured: 25.0 kg (55.2 lb) 	<p>8.7 cm (3.4 in.) H x 48.3 cm (19.0 in.) W x 55.6 cm (21.9 in.) D</p> <p>Approximate weight:</p> <ul style="list-style-type: none"> - Large form-factor control enclosure: <ul style="list-style-type: none"> • Empty: 18.0 kg (39.6 lb) • Fully configured: 28.3 kg (62.2 lb) - Large form-factor expansion enclosure: <ul style="list-style-type: none"> • Empty: 16.4 kg (36.1 lb) • Fully configured: 26.7 kg (58.8 lb) - Small form-factor control enclosure: <ul style="list-style-type: none"> • Empty: 19.0 kg (41.8 lb) • Fully configured: 27.3 kg (60.0 lb) - Small form-factor expansion enclosure: <ul style="list-style-type: none"> • Empty: 16.7 kg (36.7 lb) • Fully configured: 25.0 kg (55.2 lb)

Specifications	IBM Storwize V5030E with IBM Spectrum Virtualize Software	IBM Storwize V5010E with IBM Spectrum Virtualize Software
Operating environment	<p>Air temperature:</p> <ul style="list-style-type: none"> - 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) <p>Relative humidity:</p> <ul style="list-style-type: none"> - Operating: 20% - 85% - Non-operating: 8% - 80% 	<p>Air temperature:</p> <ul style="list-style-type: none"> - 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) <p>Relative humidity:</p> <ul style="list-style-type: none"> - Operating: 20% - 85% - Non-operating: 8% - 80%
Warranty	<p>Hardware:</p> <ul style="list-style-type: none"> - Three-year warranty with 9 to 5 next-business-day response - Tier 1 customer-replaceable units and on-site repairs - Warranty service upgrades available <p>Post-warranty support available Customer setup (initial installation and field upgrades)</p>	<p>Hardware:</p> <ul style="list-style-type: none"> - Three-year warranty with 9 to 5 next-business-day response - Tier 1 customer-replaceable units and on-site repairs - Warranty service upgrades available <p>Post-warranty support available Customer setup (initial installation and field upgrades)</p>
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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