

StorageWorks™

STORAGWORKS EZ5x SOLID STATE DISKS

Lightning-Fast Data Access Complements Fast Processors

digital



Lightning-fast data access

Highest total availability

Open, industry-standard SCSI-2

Plugs and plays like magnetic disk

Digital's EZ5x solid state disks, or SSDs, bridge the growing performance gap between today's more powerful CPUs and a traditional I/O subsystem's ability to supply data to them. Using DRAMs (Dynamic Random Access Memory chips) instead of rotating media, SSDs eliminate the latency associated with magnetic disk drives, enabling your systems to deliver maximum application performance.

Like non-volatile extensions of a computer's main memory, SSDs provide lightning-fast and consistent, sub-millisecond access to data — up to 100 times faster than magnetic disk. And since SSDs appear as traditional disk drives to your operating system and applications, you can gain their performance benefits immediately — they require no system or operational changes.

Manufacturing, finance, telecommunications, and healthcare applications were among the first to benefit from this technology. Now, at lower prices, SSDs can be adopted in a broad range of industries that have response-time-critical applications.

Available in 107 MB or 428 MB capacities, Digital's EZ5x devices are based on the SCSI-2 (Small Computer System Interface-2) industry standards. Both models incorporate the industry's most advanced and patented ECC (Error Correction Code) and a unique integrated data retention system with continuous backup to provide the highest on-line and off-line availability.

DATA SECURITY BEYOND BATTERIES

A magnetic disk within each SSD is continuously updated with the contents of the DRAMs. If power to the SSD is lost, on-board batteries ensure that the latest data is transferred from the DRAMs to the hard drive, typically in less than 1.5 minutes. This approach conserves battery power, reduces backup time, and protects against an almost unlimited number of brief power outages without affecting the I/O performance of the device. After a longer outage, EZ5x SSDs resume servicing I/O requests immediately from the hard drive while data is restored to the DRAMs, a fully automatic process.

THE VALUE OF SOLID STATE DISKS

Today, many applications don't simply support a business, they *are* the business. And whenever the time to complete a transaction or task significantly affects revenue, the quantum leap in performance that Digital's SSDs make possible can often pay back their cost in a matter of days. Digital developed this new generation of SSDs at price/performance points that enable this technology to be implemented not only in the datacenter, but in critical distributed and server applications as well.

EZ5x devices are available as StorageWorks building blocks and as drive-only components for a variety of cabinets. They connect to systems through KZMSA adapters, through HSJ40 controllers, and via HSC servers equipped with SCSI data channel cards. EZ5x SSDs are supported by VAX and Alpha AXP systems running OpenVMS and DEC OSF/1.

SPECIFICATIONS

Models/Capacities	EZ51R/106.9 MB EZ54R/427.7 MB		
Form factor	5.25-inch		
Interface	Fast single-ended SCSI-2		
Access time	< 1 ms		
Maximum I/O requests/s	> 800 (will vary by adapter and workload)		
Operating system support	OpenVMS VAX Version 5.5-2 OpenVMS AXP Version 1.5 DEC OSF/1 Version 1.3-4		
Operating temperature	10°C to 40°C		
Relative humidity	10% to 90% non-condensing		
Regulatory approvals	FCC-A, UL, CSA, TÜV		
Physical:			
Form factor	Height (mm/in)	Width (mm/in)	Depth (mm/in)
5.25-inch (drive-only)	83/3.25	146/5.75	203/8.0
5.25-inch StorageWorks building block	121/4.8	152/6.0	267/10.5

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