



hp surestore
disk system
hvd10



low-cost, protected
disk storage

The HP Surestore Disk System HVD10 packs up to 8 TB of data in a 2-meter rack—up to 10 times the storage capacity of a 2-meter rack using High Availability Storage System (HASS).

With installed RAID software, hot-swappable hardware, and extensive software monitoring tools, the HVD10 provides robust, enterprise-wide protection against data loss and system interruption. The HVD10 is well suited for mirrored-protected storage where unplanned downtime cannot be tolerated.

key features and benefits

- **economical:** exceeds the storage capacity of HASS but uses the same Logical Volume Manager, Event Management System, and device support to extend the useful life of Fast/Wide HVD SCSI HP server environments
- **versatile:** supports half-height/low-profile 18-GB to 73-GB drives
- **dependable:** eliminates service interruption—allows you to hot-swap redundant components while the system is operating
- **protected:** ensures guaranteed stress-free storage
- **available:** uses dual HVD10 bus control cards for twice the availability to guarantee 99.95% uptime
- **scalable:** delivers 30 percent more I/O throughput and scalability than HASS via Ultra2 10,000-rpm drives
- **high-performance:** breaks through performance barriers using Ultra2 SCSI solid state drives
- **efficient:** disk drives rotate at 10,000 rpm or 15,000 rpm for higher I/O rates and better throughput for fast access to OLTP and data warehousing data
- **cost-effective:** the lowest price-per-megabyte non-RAID SCSI storage solution
- **supported:** three-year onsite, three-day response warranty

technical specifications
host interface type

performance/throughput
Fast/Wide High Voltage Differential SCSI 20 MB/s per connect
2 connections per bus control card
2 bus control cards per HVD10

disk drives

Ultra2 SCSI Low Voltage Differential 80 MB/s per disk

enclosure capacity

10 half-height disk drives, or 10 low-profile disk drives, for up to 730 GB per enclosure

high availability features

Hot-swappable drives, fans, power supplies
Redundant, hot-swappable bus control cards

rackmount enclosure

dimensions
height: 3-1/2 EIA units (150 mm)
width: 17.65 in (448 mm)
depth: 28.68 in (728 mm)
weight: 100 lb (45.35 kg)



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technical specifications

capacity
rotational velocity
transfer rate
average seek time

disk drives available; formatted

18.2 GB

10,000 rpm, 15,000 rpm
160 MB/s
3.7–5.2 ms

36.4 GB

10,000 rpm, 15,000 rpm
160 MB/s
3.7–5.2 ms

73.4 GB

10,000 rpm
160 MB/s
4.9 ms

interface

16-bit Ultra2 SCSI 20 MB/s (wide and differential)

input requirements
input power
power factor
inrush current
AC inlet
AC protection

AC power

100–240V AC, single-phase input, 50–60 Hz
650 W
PFC-compliant to EN61000-3-2
10 A max per supply @ 240V AC
C-22 appliance coupler
internally fused, 8 A

temperature
temperature gradient
relative humidity
elevation
shock
vibration
safety and emissions
quality
standard accessories

operating environment

50–100.4°F (10–38°C)
10°C/hr
20–80% (noncondensing)
8,000 ft (2,438.4 m)
3 G + 11ms 1/2 sin pulse
0.25 G at 5–500 Hz
FCC Class A, VDE Class A, UL 1950, CSA C22-2-950, ENG950
manufactured at an ISO 9000-certified facility
rack rail kits for HP standard rack and HP Rack System/E

ordering information

A5616A Field-rackable version
A5616AZ Field-racked version

for more information

For more information on HP storage products, contact any of our worldwide sales offices or visit our Web site at:
www.hp.com/go/storage

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