

# Bering Series 8000.

A family of CS/80 disk subsystems  
for Hewlett-Packard computers.



**Completely HP compatible**

**Hard-disk storage from 10 to 200 Mbytes**

**Multi-port disk and file sharing**

**Removable hard-disk drive option**

**Floppy disk drive option**

**IBM PC compatibility**

**Compact and quiet design**

# A wealth of solutions.

Now all HP users are united. From the HP110 to the HP3000, one family of CS/80 disk drive subsystems serves them all.

Introducing the new Series 8000, a full line of Winchester hard-disk subsystems that works with all HP computers: big or small. Including the Portable, the Series 80, the Integral, the Vectra PC, the Touchscreen PC, the 1000, the 3000, the 9000, the 250/260, the 64000, and with network servers for the SRM or the Ethernet!

With storage capacity ranging from 10 to 200 Mbytes<sup>2</sup>, the Series 8000 offers over 40 configurations to suit your needs. You may select a double-sided 3.5" floppy or a 10-Mbyte removable cartridge disk drive for on-line storage and data backup. Or add an option to share one disk subsystem among three computers.

More importantly, all configurations come in one uniform design. This feature protects your investment by making it easy to increase storage capacity or reuse the disk drive with other computers.

Taking advantage of the Series 8000 is simple. Just connect the disk subsystem to the HP-IB<sup>3</sup> disk interface on your computer. No hardware or software modification is necessary. And use of our product does not interfere with HP's warranty.

## Efficient and secured storage.

A special advantage of the Series 8000 is the option of using the 10-Mbyte removable cartridge disk drive. It handles like a microfloppy, but performs like a hard disk, allowing you to create, update, and backup files on individual cartridges. Disk capacity can be expanded indefinitely by adding more cartridges, not more hard-disk drives. You can also transport valuable data and programs to wherever they're needed, or lock them up for safety.



Packed in a small 10-MB cartridge, the removable hard disk delivers performance, security, and flexibility over tapes.

For the utmost in security, the TopSecret™ models of the Series 8000 use removable media exclusively, complying with the strictest requirement for classified information. An optional floppy drive is available for data exchange.

## Enhanced performance. The EP.

The EP models employ a faster disk controller to deliver a higher level of performance than the standard Series 8000. Each subsystem can transfer data at an average rate matching that of HP7912/7914 disk drives. Faster head seek mechanisms used in the EPs can also handle the frequent random-seek requirement of most multi-user systems, real-time applications, or the HP-UX<sup>4</sup>

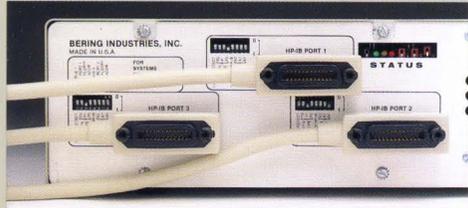
The EPs have the highest capacity and the best performance in the Series 8000 family. They deliver the best value in add-on storage for the HP9000, the HP1000, the HP3000 Model 37, and larger installations, at very competitive prices.



# At affordable prices.

## Disk and file sharing.

The Series 8000 provides a unique alternative to a local area network (LAN) for small offices or laboratories. The Opt. 731 or 721 enables two or three computers to access one disk drive, connected by ordinary HP-IB cables.



Disk and file sharing is installed by simply connecting HP-IB cables from the back panel to your computers.

For simple disk sharing, different computers equally divide the capacity of the fixed hard disk into exclusive storage areas. Each computer addresses its own area independently, but shares the use of the removable media drive.

For file sharing among similar computers, a block of shared information space (SIS) is created in the fixed hard disk. Information may be deposited or retrieved from the SIS by one computer at a time. Once a user releases the SIS, it's then available to other users. However, each computer maintains unrestricted access to its own disk area at all times.

Unlike most LANs, the multi-port disk and file sharing capability is simple and less expensive. All firmware and hardware are an integral part of the disk controller. Setting up a new configuration takes only minutes, with minimal system management. For many applications, where sophisticated LAN features are not required, this simple arrangement works best.

## IBM compatibility.

Stretching the flexibility even further, you may now connect the Series 8000 to the IBM® PC/XT/AT, or compatibles, with the HP88500A interface. So, even more computers can take advantage of powerful features, like the multi-port, available only from Bering.

## Extensive service & support.

Bering Industries disk drives are supported worldwide through full-service distributors and authorized third-party service companies. On-site repair service is made available in major cities.

Bering also offers the Quick-Swap™ support program. This fast response system ensures a uniform level of support for our customers at the lowest cost, regardless of geographic location.

The self-diagnostics in the disk controller will automatically isolate the source of the failure. You simply have to call our regional support center for prompt attention to your problem. Replacement parts, if needed, are immediately dispatched to you from a nearby stocking depot, usually overnight.



Modular design, compact packaging, and extensive self-diagnostics are standard features of the Series 8000.



1. SRM, Shared Resource Manager is an HP product. Ethernet is a trademark of 3Com Corporation.
2. Please check the Selection Guide for the latest announcement in capacities and options.
3. HP-IB is Hewlett-Packard's implementation of IEEE 488 Standard (1978). Customized disk drive software is needed in a non-HP computer to use the Series 8000.
4. HP-UX is HP's implementation of AT&T's UNIX.
5. IBM is a trademark of International Business Machines, Corp.

## Quality you can count on.

Bering products have a proven record of reliability and compatibility. Our one-year limited warranty substantiates our commitment. In fact, we offer to refund your money if our products fail to meet your expectations.

In the last five years, Bering has specialized in the HP market. We are experienced in working with HP's

equipment and support organization, and accept the responsibility of making our product compatible with your HP computers.

Call us today. Let us show you more ways to satisfy your disk storage needs. We'll prove to you why we have gained the respect and trust of discriminating technical HP users worldwide.

**1 YEAR  
WARRANTY**  
contact local Distributor

## SPECIFICATIONS<sup>6</sup>

<b>FIXED HARD DISK</b>	<b>Below 40 Mbytes</b>	<b>40 Mbytes &amp; Above</b>
Formatted Capacity (Mbytes) <sup>7</sup>	10,15,20	40,50,70 65,95,132,190 (EP)
Max. Transfer Rate (Kbytes/s)	610	610
Avg. Transfer Rate (Kbytes/s) <sup>8</sup>	260	260 700 (EP)
Avg. Seek Time (ms)	85	30
One Track Seek Time (ms)	18	8
<b>REMOVABLE MEDIA DRIVE</b>	<b>3.5" Floppy (2-sided)</b>	<b>Cartridge Disk</b>
Formatted Capacity (Kbytes)		
- at 256 Kbytes/sector	630	10,445
- at 512 Kbytes/sector	710	N/A
- at 1024 Kbytes/sector	788	N/A
Max. Transfer Rate (Kbytes/s)	610	610
Avg. Transfer Rate (Kbytes/s)	10	260
Avg. Seek Time (ms)	106	85
One Track Seek Time (ms)	18	18
<b>POWER REQUIREMENTS</b>	<b>110 Volts</b>	<b>220 Volts</b>
Line Voltage (Vac)	90 to 132	198 to 264
Line Frequency (Hz)	47 to 63	47 to 63
Current (Amp/max.)	1.1	0.6
<b>MISCELLANEOUS</b>		
Interface	HP-IB (IEEE-488)	
Disk Emulations	CS/80, Subset/80, HP9133D, HP7908/11/12/14	
Rackmount	HP standard rack or 19" EIA/RETMA	
Dimensions (H x W x D)	4.2" x 15" x 17.5" (106 x 394 x 444 mm)	
Shipping Weight	31 to 36 lb (14 to 16 kg)	
Net Weight	22 to 27 lb (10 to 12 kg)	

6. Specifications and data are subject to change.

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7. Formatted capacity under an HP disk drive emulation differs.

8. All average transfer rates are dependent on the computer used and the application environment.

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