

HEWLETT-PACKARD

Expanded Memory Cards for the Vectra Personal Computer Family



Data Sheet

For many of today's software applications, 640 Kbytes of base memory just isn't enough. 640 Kbytes of *base* or *conventional* memory is a restriction currently imposed by the MS-DOS® operating system. This limits the maximum size of your spreadsheets and the speed of your system when using multiple applications under programs such as Microsoft® Windows.

Hewlett-Packard's Vectra ES Expanded Memory Card and Vectra CS Expanded Memory Card overcome the 640 Kbyte barrier for software applications written to take advantage of the Lotus/Intel/Microsoft Expanded Memory Specification (LIM EMS), the industry standard for *expanded* memory.

HP's Expanded Memory Cards can increase your productivity in a number of ways:

- With expanded memory, you can store and manipulate large spreadsheets in a single file rather than splitting them into multiple files when the 640 Kbyte limit has been reached.
- Expanded memory will increase the performance of your Vectra system when switching between multiple applications under Windows.
- With the RAM disc utilities provided with HP's Expanded Memory Cards, you can create "electronic disc drives" or RAM discs. These RAM discs improve the performance of tasks which frequently access disc drives such as sorting large data bases with Microrim's R:BASE 5000 or preparing lengthy documents in Microsoft Word or MultiMate®.

Vectra ES Expanded Memory Card

The Vectra ES Expanded Memory Card employs the latest in memory technology and is designed specifically for use with the Vectra ES PC and the Vectra ES/12 PC.

Because we use the latest memory technology, you can have up to 8 Mbytes of high density memory modules on a single Vectra ES Expanded Memory Card. And since the card is installed in the Vectra ES Expanded Memory Slot, included exclusively on Vectra ES and ES/12 PCs, you can have 8 Mbytes of memory without using any of your seven standard accessory slots.

When plugged into the 12 MHz Vectra ES/12, the Vectra ES Expanded Memory Card operates at a full 12 MHz with just one wait state. The fast expanded memory keeps pace with your Vectra ES/12 PC's high speed performance, enhancing overall system performance.

The Vectra ES Expanded Memory Card is compatible with LIM EMS 4.0, offering capabilities which go beyond earlier EMS specifications. The Vectra ES Expanded Memory Card supports up to 16 times as many memory swaps areas as the Intel Above™ Board 286 and can swap executable code as well as data. You benefit by gaining significantly faster, more flexible memory.

The Vectra ES Expanded Memory Card is like having two memory cards in one. It allows the use of both *expanded* and *extended* memory on a single card. All or part of your Vectra ES Expanded Memory Card may be set-up as *extended* memory for use by operating systems such as Xenix and Microsoft's OS/2.

Vectra CS Expanded Memory Card

The Vectra CS PC also has a valuable expanded memory option. With the Vectra CS Expanded Memory Card, your Vectra CS PC can tackle even bigger jobs. With up to 2 Mbytes of LIM EMS 3.2 expanded memory on each card, large spreadsheets and databases can be manipulated quickly and easily. And up to four cards — 8 Mbytes of memory — can be used together to handle even bigger tasks.

In addition to enabling you to work with more data at once, the Vectra CS Expanded Memory Card provides important tools to enhance your productivity. It includes a RAM disc utility, which allows you to create "electronic disc drives" or RAM discs. These are like normal disc drives, only much faster. Many leading programs, such as Microsoft Windows, will run more quickly with a RAM disc. You can also use a RAM disc to speed retrieval of frequently accessed data or software.

Another timesaving feature of the Vectra CS Expanded Memory Card is its standard print spooler. Many computer systems cannot be used while a document is being printed. With the Vectra CS Expanded Memory Card, printing needn't monopolize your Vectra CS PC. Instead, the print spooler stores your output in memory on the card, and feeds it out as quickly as your printer can use it. Meanwhile, you can continue to use your computer, as if printing had already been completed.

