

COMPAQ DESKPRO 386 PERSONAL COMPUTER

The COMPAQ DESKPRO 386tm is the most advanced high-performance personal computer available. It combines for the first time in a personal computer, the 16 MHz speed of the next-generation Intel^R 80386 microprocessor, an advanced 32-bit architecture, and full compatibility with the industry standard.

The COMPAQ DESKPRO 386 is a computing breakthrough: It expands the potential of personal computers today by combining minicomputer-level performance with the individual productivity of a desktop personal computer, all while maintaining full compatibility with the industry standard. It runs the most popular software two to three times faster than 8 MHz 80286-based personal computers, such as the IBM^R PC AT^R.

This unique combination meets the needs of today's business personal computer power users working with large databases and spreadsheets. It also creates dramatic advances in performance for applications such as computer aided design and engineering (CAD/CAE), true multi-tasking/multi-user, local area network/file server, and, for the first time on a personal computer, artificial intelligence. Further performance is achieved with the addition of an optional 8 MHz 80287 coprocessor for floating-point-calculation-intensive tasks, such as computing scientific or architectural equations.

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Available in two models, the COMPAQ DESKPRO 386 Models 40 & 130 are designed with an unequalled combination of power, speed, storage, and memory to maximize the performance of the system. Along with its 16 MHz speed, its high-performance features include up to 130 Megabytes of fixed disk storage with an average access time of 19 milliseconds, and up to 40 Megabytes of fixed disk drive backup, which provides four times the capacity and twice the speed of the company's previous fixed disk drive backup system.

Furthermore, the COMPAQ DESKPRO 386 includes up to 14 Megabytes of random access memory (RAM) and incorporates the COMPAQ Expanded Memory Manager (CEMM) for applications that support the Lotus ^R/Intel/Microsoft ^R (LIM) Expanded Memory ^R Specification to go beyond the 640-Kilobyte MS-DOS ^R limitation.

The COMPAQ DESKPRO 386 also offers capabilities for advanced business graphics -- the new COMPAQ Color Monitor and COMPAQ Enhanced Color Graphics Board, which run the popular industry standard software designed for the IBM Enhanced Graphics Adapter (EGA). To allow for maximum flexibility, Compaq also offers the COMPAQ Dual-Mode Monitor, which displays high-resolution text and graphics on the same monochrome screen using the COMPAQ Video Display Controller Board; it supports all of the most popular industry standard software.

The system also includes up to six available expansion slots and the new COMPAQ Enhanced Keyboard, which features the 101-key layout that is becoming the new industry standard for personal computers and other workstations.

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Performance

In the COMPAQ DESKPRO 386, the seasoned engineering team at Compaq Computer Corporation designed a personal computer that incorporates today's most advanced technology. Their intent was to go far beyond simply utilizing the next generation speed of the Intel 80386 32-bit microprocessor running at 16 MHz. They optimized every aspect and component of the COMPAQ DESKPRO 386 system to maximize overall system performance while maintaining full compatibility with the industry standard.

To complement the Intel 80386 microprocessor's 32-bit architecture and 16 MHz speed, the COMPAQ DESKPRO 386 utilizes new memory technologies, including a 32-bit system memory bus structure and new static column RAM circuits to dramatically decrease RAM access time. The system also uses high-performance fixed disk drives and a fixed disk drive backup that are designed to minimize access times and maximize storage capacity.

Advanced Architecture

The COMPAQ DESKPRO 386 features a 32-bit memory bus architecture, which when combined with the 16 MHz speed of the the 80386 microprocessor extends the system's performance far beyond any other personal computer.

The system's larger memory bus structure accesses and transfers information stored in memory to and from the new-generation 80386 microprocessor more rapidly than existing systems. This eliminates any artificial constraints on the processor, and ultimately allows the COMPAQ DESKPRO 386

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to perform two to three times faster than 8 MHz 80286-based systems.

Along with the high performance of the next-generation microprocessor, the COMPAQ DESKPRO 386 provides compatibility with software and hardware products designed for the industry standard. Using an 8 MHz, 8/16-bit expansion bus, it is fully compatible with hardware expansion products designed for use with 8 MHz 80286-based personal computers.

The advanced 80386 microprocessor in the COMPAQ DESKPRO 386 and the company's commitment to compatibility provide today's business personal computer users with the highest performance personal computer system available; its 32-bit architecture accommodates today's most powerful applications, and can take advantage of new operating systems and future applications software that soon will exploit the larger linear address space, memory paging and other features of the advanced microprocessor.

Memory

Random access memory in the COMPAQ DESKPRO 386 also has been designed to complement the system's overall high performance. This includes the use of 1-Megabit static column RAM chips, the first time these advanced devices have been designed into a personal computer.

Also enhancing performance is the design of the 32-bit System Memory Board. This leading memory technology enables each COMPAQ DESKPRO 386 to include from 1 Megabyte to 10 Megabytes of 32-bit RAM directly on the system memory board without requiring

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an expansion slot. This is accomplished with expansion connectors that are used to attach one of two different 32-bit Memory Expansion Boards directly to the 32-bit System Memory Board.

To expand the COMPAQ DESKPRO 386 to its full potential of 14 Megabytes of RAM, up to two 16-bit Memory Expansion Boards can be installed in the system by utilizing its 8/16-bit expansion slots. This makes RAM available today for business power users, advanced CAD/CAE, and multi-user environments, while providing for future software that will require even larger amounts of RAM.

Expanded Memory Manager

The COMPAQ DESKPRO 386 also features the COMPAQ Expanded Memory Manager (CEMM). CEMM extends the traditional 640 Kilobyte MS-DOS limitation to 8 Megabytes by providing access to additional memory for application software programs that follow the Lotus/Intel/Microsoft (LIM) Expanded Memory Specification.

The additional memory available through the CEMM, coupled with the 16 MHz speed of the 80386 microprocessor, allows users to fully exploit the most powerful current software programs, including 1-2-3^R Release 2 and Symphony^R Release 1.1 from Lotus, Ashton-Tate's Frameworktm II, and AutoCAD^R Version 2.5. The COMPAQ DESKPRO 386 also will accommodate future application software programs through the 80386 microprocessor's ability to operate in the protected and virtual modes.

The CEMM is a software utility that comes standard with the COMPAQ DESKPRO 386, thereby eliminating the need to purchase

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additional hardware or software to support LIM. This standard feature operates automatically and is accomplished through the use of the virtual mode of the 80386.

Storage

The COMPAQ DESKPRO 386 can accommodate up to four mass storage devices, all of which have been designed to optimize system performance while maintaining compatibility with the industry standard. The performance and capacities of these devices have been increased to a level unequalled on personal computer products.

The COMPAQ DESKPRO 386 Model 130 includes a full-height 130-Megabyte fixed disk drive that uses an Enhanced Small Device Interface (ESDI) Fixed Disk Drive Controller. This drive has an average access time of 19 milliseconds and an average data transfer rate of 10 Megabits per second. This provides exceptional performance in network file server and multi-user applications, particularly when running under the XENIX^R System V/286 or System V/386 multi-user, multi-tasking operating systems.

XENIX System V/286 and applications written for it run on the COMPAQ DESKPRO 386. XENIX System V/386, now being developed by Microsoft Corporation, will be available from Compaq in the first half of 1987. It will take full advantage of the Intel 80386 microprocessor's 32-bit architecture, larger address space and memory paging features.

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The combination of these features of the 80386 micro-processor and the abilities of XENIX System V/386 make it practical for the first time to run on a personal computer extremely large and complex software applications previously reserved for minicomputers.

The COMPAQ DESKPRO 386 Model 40 includes a high-performance half-height 40-Megabyte fixed disk drive that provides an average access time of 28 milliseconds. Adding further system performance, the 40-Megabyte fixed disk drive includes an integrated Fixed Disk Controller, thereby eliminating the need to occupy an available expansion slot.

The fixed disk drives call for data protection that accommodates the drive's high-capacity data storage and advanced performance. The 40 Megabyte Fixed Disk Drive Backup in the COMPAQ DESKPRO 386 provides storage capacity of 40 Megabytes on just one tape cartridge (3M^R DC2000), a data-transfer rate of 500 Kilobits per second, as well as error checking capabilities to ensure greater data integrity. The drive also can read DC1000 tapes, which provides compatibility with tapes used on other COMPAQ^R Personal Computers. The new 40-Megabyte Fixed Disk Drive Backup is also available as an option for the COMPAQ DESKPRO^R 286 .

The COMPAQ DESKPRO 386 Models 130 & 40 are configured with half-height 1.2-Megabyte Diskette Drives, providing compatibility with the industry standard. Available as an option is the half-height 360-Kilobyte Diskette Drive, which uses 5 1/4-inch

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diskettes, the industry's most popular medium for application software.

Monitors, Keyboards

To allow for maximum flexibility, Compaq is offering as options the new COMPAQ Color Monitor and the COMPAQ Enhanced Color Graphics Board, or the COMPAQ Dual-Mode Monitor and COMPAQ Video Display Controller Board.

The COMPAQ Color Monitor and COMPAQ Enhanced Color Graphics Board are designed to meet the needs of users requiring compatibility with the rapidly increasing number of software programs developed for the IBM Enhanced Graphics Adapter.

The COMPAQ Color Monitor's 13-inch diagonal screen can simultaneously display 16 colors from a palette of 64. The COMPAQ Enhanced Color Graphics Board comes standard with 256-Kilobytes of memory. When used with the COMPAQ DESKPRO 386, it offers up to twice the speed of comparable graphics boards during text screen operations such as scrolling. The board requires a full size 8-bit expansion slot.

The COMPAQ Dual-Mode Monitor is the same unique monitor used to date in the company's full line of best-selling personal computers. It displays high-resolution text and graphics on the same screen and is available in green or amber. The supporting COMPAQ Video Display Controller Board requires a full size 8-bit expansion slot.

The COMPAQ Enhanced Keyboard, with its separate numeric and cursor control clusters, and extra function keys, is the 101-key

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keyboard that is becoming the new standard for personal computer workstations. It features green LEDs on the NUM LOCK, CAPS LOCK, and SCROLL LOCK keys for visual feedback.

COMPAQ DESKPRO 386 Models 40 & 130

o COMPAQ DESKPRO 386 Model 40 includes: an 80386 microprocessor running at 16 MHz; 1 Megabyte of RAM; a half-height 1.2-Megabyte diskette drive; a half-height, high performance 40-Megabyte fixed disk drive; COMPAQ Expanded Memory Manager; the COMPAQ Enhanced Keyboard; interfaces for a parallel printer and serial/asynchronous communications; a real-time clock; three available 8/16-bit expansion slots and three available 8-bit slots. U.S. suggested resale price: \$6,499.

o COMPAQ DESKPRO 386 Model 130 includes: an 80386 microprocessor running at 16 MHz; 1 Megabyte of RAM; a half-height 1.2-Megabyte diskette drive; a full-height high performance 130-Megabyte fixed disk drive; COMPAQ Expanded Memory Manager; the COMPAQ Enhanced keyboard; interfaces for a parallel printer and serial/asynchronous communications; a real-time clock; two available 8/16-bit expansion slots and three available 8-bit slots. U.S. suggested resale price: \$8,799.

COMPAQ DESKPRO 386 Options

The COMPAQ DESKPRO 386 Models 40 & 130 accommodate a range of optional industry standard add-on and add-in devices available from Compaq and third-party manufacturers.

The COMPAQ DESKPRO 386 options available through Authorized Compaq Computer Dealers worldwide and suggested resale prices are:

- o 1-Megabyte Memory Upgrade Kit, \$549.
- o 4-Megabyte Memory Upgrade Kit, \$2,699.
- o 1- to 2-Megabyte 32-bit Memory Expansion Board, \$849.
- o 4- to 8-Megabyte 32-bit Memory Expansion Board, \$2,999.
- o .5- to 2-Megabyte 16-bit Memory Expansion Board, \$475.
- o 512-Kilobyte Memory Upgrade Kit, \$150.
- o 360-Kilobyte Diskette Drive, \$225.
- o 1.2-Megabyte Diskette Drive, \$275.
- o 40-Megabyte Fixed Disk Drive Backup, \$799.
- o Second 40-Megabyte Fixed Disk Drive, \$2,199.
- o COMPAQ Dual-Mode Monitor, \$255.
- o COMPAQ Color Monitor, \$799.
- o COMPAQ Video Display Controller Board, \$199.
- o COMPAQ Enhanced Color Graphics Board, \$599.
- o 8 MHz 80287 Coprocessor, \$349.

- o MS-DOS and BASIC Version 3, Release 3.1 diskettes and reference guides, \$85.
- o XENIX System V/286, as published by Compaq: Base Operating System, \$599; Software Development System, \$599; Text Processing System, \$199.
- o COMPAQ DESKPRO 386 Technical Reference Guide, \$149.
- o COMPAQ Enhanced Color Graphics Board Technical Reference Guide, \$49.
- o 40-Megabyte Tape Cartridge, \$50.

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