Apricot XEN is the fastest, most sophisticated micro on the market. With high performance, elegant styling and highly competitive pricing, Apricot XEN marks a new phase in personal computing. It employs the Intel 80286 processor, and offers two standard configurations of 512K RAM with 1.44 Megabytes of Microfloppy disk storage or a massive 1 Megabyte of RAM and 20 Megabytes of hard disk.

Apricot XEN's modular design permits upward extension, allowing you to expand internal disk storage to 40 Megabytes, and the system RAM to 5 Megabytes. XEN can act as a network or telecommunications workstation, and even as the core of a full Xenix based multi-user system.

And Apricot XEN offers the Apricot and IBM compatibility you need – with no compromise on performance.

apricot *XEN*

Processing power

Apricot XEN uses the Intel 80286 as its main processing element, running the processor at 7.5 Megahertz to achieve processing speeds typically 60% faster than the IBM PC/AT. Zero wait-state memory and a 4-channel Direct Memory Access processor optimise the performance of the 80286, and for numerical data processing, the Intel 80287 floating point co-processor is available as an option.

Operating systems and environments

Two standard operating systems means XEN can excel in any environment, from the business to the scientific.

MS-DOS version 3, the worldwide standard for business computers, is the first option. Microsoft Windows provides a powerful and friendly graphics interface with multi-tasking facilities. MS-DOS 3 gives XEN immediate access to a vast software base, and the MS-NET based Apricot Networks.

One of the first developments of Apricot XEN will be an optional Xenix-based multi-user system. Xenix, a version of the Unix operating system originally developed by Bell Laboratories is a complex, but highly sophisticated system which offers powerful multi-tasking/multi-user facilities. Up to four Xenix serial cards can be slotted into expansion slots, each card capable of supporting up to four users. Apricot XEN's Xenix multi-user system will be capable of supporting up to 16 users with dumb terminals, Apricots or other personal computers.

Modular memory and mass storage

There are two basic configurations of Apricot XEN. Twin 720K MicroFloppy drives offer 1.44 megabytes of mass storage with 512K of RAM, or XEN is available with a single 720K MicroFloppy drive, integral 20 Megabyte disk drive and 1 Megabyte of RAM (896K usable). And disk capacity and memory on each configuration can be expanded as your needs change.

As many as four 1 Megabyte modular memory cards can be added via the expansion slots, bringing the total feasible RAM of XEN to an unprecedented 5 Megabytes.

Controller electronics for both floppy and Winchester disks are standard, so either of the basic storage configurations can be expanded by slotting a second 20 Megabyte hard disk into the systems unit, giving up to 40 Megabytes of storage capacity.

An optional integral 20 Megabyte tape module, to be launched in 1986, will give XEN a fast tape streaming function for storing security copies of important files.

Monitors

In keeping with the flexible, modular design of Apricot XEN, there are a number of display configurations. Each monitor can be tilted and swivelled to achieve the best viewing angle for the user.

The 12″ monochrome monitor uses the latest display technology to produce pin-sharp images on a paper-white background. With the highest standard display resolution available – a full 800×400 pixels – the monochrome monitor matches Apricot XEN's processing speed with sufficient clarity for detailed design work.

Apricot XEN is also fully compatible with the more traditional 9″ and 12″ green phosphor monitors. Providing the same resolution as the paper-white option, these displays are ideal where cost is a consideration.

Two 12″ IBM resolution compatible colour display options offer the user a choice of high performance and price competitiveness. A 640×350 high resolution monitor can display an incredible 16 colours simultaneously from a palette of 64. Five gate arrays operate in parallel on the four colour planes, giving a colour system ideal for MS-Windows and other graphical applications. The 640×200 mid-resolution colour monitor acts as an economical alternative, with the capacity to display 4 colours from 16 at once.

Keyboard/mouse

The stylish Apricot XEN keyboard boasts a full 102 keys, plus functions fully compatible with the Apricot, IBM PC or AT keyboards.

Each individually sprung key has its own keyclick mechanism for a solid, positive feel. All the AT keys are there, plus dedicated cursor control keys and a further 6 function keys with dynamic labelling provided by the Apricot MicroScreen™ – an 80 character LCD display, backlit for good visibility in any environment. The MicroScreen also acts as a clock, calendar, or a window onto the active portion of the screen.

The optional Apricot trackerball mouse supplements the keyboard when using the latest generation of graphics software.

Printer and communications

XEN has one Centronics and one RS232 port as standard, allowing you to output not only to printers, but to typesetters, plotters and serial line printers as well. And the RS232 allows XEN to talk to other computers directly or via telecommunications links.

The Apricot XEN-COM system turns XEN into a powerful communications centre, opening up new horizons for the user.

Fully integrated with Apricot's Communiqué system, XEN-COM gives easy access to facts and figures held on databases throughout the world.

And sending messages, verbally or by electronic mail, becomes easier than ever before. A powerful telephone management system stores numbers in a directory for automatic sequential dialling. You simply tell XEN which numbers you want to call, and XEN-COM does all the hard work – even while you carry on with another task.

Compatibility

Apricot XEN combines full Apricot compatibility with near-perfect IBM compatibility via functionally compatible keyboard and monitors plus IBM ROM BIOS emulation software supplied as standard. Two optional units (available early 1986) enhance this feature even further. A 5.25″ disk drive can run IBM applications directly or transfer them to XEN's internal drives, while the Apricot XP expansion box allows XEN to access IBM PC or AT boards directly.

SPECIFICATION

Multi-processor architecture:
Intel 80286 running at 7.5MHz
4 Channel DMA processor (optionally up to 7)
Intel 80287 floating point processor (option)

Memory:
512K (with floppy drive XEN)
1Mb (with hard disk XEN – 896K usable)
64K of EPROM

Memory expansion:
Expansion cards for additional 4Mb of standard memory

Mass storage:
Floppy and hard disk controllers on motherboard
a) Two double sided 3.5″ Microfloppy drives (720K each)
b) One 20Mb (nominal) 3.5″ Winchester disk, one double sided 3.5″ Microfloppy (720K)

Optional mass storage expansion:
One internal 20Mb (nominal) 3.5″ Winchester disk
Apricot MX10 10Mb (nominal) external Winchester disk

20Mb internal tape drive
IBM compatible external 5.25″ floppy drive unit

Ports:
RS232C serial port
   – synchronous and asynchronous
   – 19.2K baud asynchronous
   – Up to 512K baud synchronous
Centronics port

Optional Modem Communications:
XEN-COM
Integrated telecommunications

Hardware expansion:
6 internal expansion slots, one used by monitor and one reserved for future Apricot use
Connectors for MX Twin (Apricot compatible) and XP (IBM compatible) expansion boxes

Keyboard:
Soft keyboard with 102 keys in superset of both Apricot and IBM PC/AT keyboards.
10 standard function keys, and 6 labelled by the MicroScreen.
Cable mouse option.

Sound:
3 tone channels plus a noise generator.

Monitor options:
12″ monochrome 800×400 paper-white high resolution
9″ or 12″ monochrome 800×400 green phosphor high resolution
12″ colour 640×350 displaying 16 colours from 64
12″ colour 640×200 displaying 4 colours from 16

Dimensions: Monitors –

12″ mono (paper white)	395mm deep × 310mm wide × 295mm high	
12″ mono (green phosphor)	324mm deep × 330mm wide × 279mm high	
9″ mono (green phosphor)	254mm deep × 267mm wide × 216mm high	
12″ colour	395mm deep × 310mm wide × 295mm high	
Systems Unit:	380mm deep × 370mm wide × 105mm high	
Keyboard:	195mm deep × 465mm wide × 55mm high	
Power Supply Unit:	310mm deep × 142mm wide × 110mm high	

Weight: Monitors –
12″ mono (paper white) 8 kg;
12″ mono (green phosphor) 8.12 kg;
9″ mono (green phosphor) 4.13 kg;
12″ colour 10.5 kg; Systems Unit 6 kg;
Keyboard 1.75 kg; Power Supply Unit 3 kg

Power Supply:
135W external power supply with remote switching

Inclusive software:
MS-DOS 3
MS Windows and the following applications and utilities:
MS-Write
MS-Paint
Calendar
Card Index
Notepad
Clock
Calculator
VT100 Emulator
Reversi
IBM ROM BIOS Emulator
GW BASIC Interpreter
Asynchronous communications