ACORN PERSONAL COMPUTER M19

FEATURES

TOP OF THE CLASS

With an Acorn M19 you've got the best of both worlds. In the first place, it is an easy-to-use industry standard PC compatible, with built-in graphics capability.

RELIABILITY

In the second, it's an Acorn computer. That means it benefits from the same advantages that all Acorn computers share – reliability, functionality, expandability and optional Econet networking. It also means that it comes from the company that really knows and understands how computers are used in education, training and business applications.

MS-DOS

Designed as a low-cost, but powerful personal computer, M19 is a lot smaller than you'd expect – so it takes up less room on your desk. It runs an extensive range of popular and sophisticated MS-DOS programs and can be used either as an intelligent workstation on a local network, or as a single-user personal computer.

COMPATIBILITY

For the greatest compatibility, M19 uses a powerful 16-bit 8088 processor with a clock speed of 4.77 MHz. For users who want faster speeds, there's an upgrade option which allows the user to choose between 4.77 MHz and 8 MHz.

EXPANDABILITY
All versions of the M19 come with 256K memory as standard. This can easily be increased to 512K or 640K.

SYSTEM OPTIONS
The M19 comes as a complete ready to-use system, in a number of optional configurations. The basic system (AIM 20) comes complete with two built-in 360K floppy disc drives and a high resolution monochrome monitor. The complete system runs off just one mains lead. For those requiring large storage capability, model AIM 10 offers an additional 20Mb hard disc unit in place of one of the floppy disc drives.

Each of the above systems is also available with a colour monitor (models AIM 25 and AIM 15), which also includes the useful addition of an expansion slot for industry standard expansion cards.

ADDITIONAL EXPANSION OPTIONS
Expansion box
External expansion box – allows installation of a full size expansion board (AIM 08)

Memory expansion kits
256K RAM memory kit for memory expansion on motherboard (AIM 04)

Additional serial interface
- Asynchronous serial interface board with a current-loop (SIC 1945)

Communications
- 8530 integrated communications board for BSC/SNA communication (SIC 1946)
- Econet networking for communications and sharing of facilities

Mouse interface
fits into the keyboard to allow use of mouse (AIM 06)

TV adapter
for use with television sets with SCART connectors

Dual speed kit
increases the CPU speed from 4.77 MHz to 8 MHz, selectable by the user (DSK 1921)

SPECIFICATIONS

CPU
- 16-bit 8088 (4.77 MHz clock speed expandable to 8 MHz)
- cycle time: 210 ns
- memory access time: 200 ns
- 8 bit internal bus

MEMORY
- 256K RAM expandable to 640K
- bootstrap 16K ROM with automatic power on diagnostics for main systems functions control.

STANDARD CONTROLLERS
- The integrated display controller supports alphanumerics and graphics in monochrome and colour and provides the following resolutions:

alphanumeric modes
80 × 25 characters 16 colours/'shades of grey'

40 × 25 characters 16 colours/'shades of grey'

Reverse, underline, high intensity and blinking

graphics modes
- Super high resolution (640 × 400 pixels), monochrome only
- Plantronics mode high resolution (640 × 200 pixels), 4 colours
- Standard high resolution (640 × 200 pixels), 2 colours/'shades of grey'
- Plantronics mode low resolution (320 × 200 pixels), 16 colours
- Standard low resolution (320 × 200 pixels), 4 colours/'shades of grey'

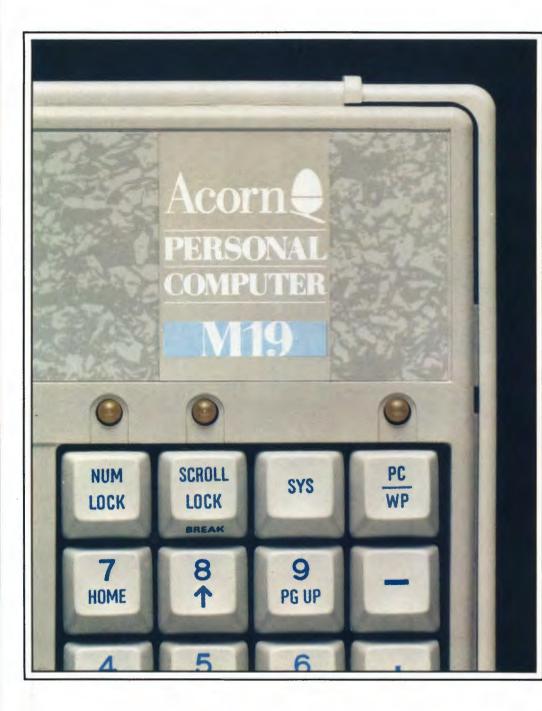*Note:* Plantronics modes do not require the use of the expansion slots

MONITORS

monochrome
12″ monitor
brightness and contrast controls
antiglare surface
green P39 Phosphor
graphics resolution (max) 640 × 400 pixels

colour
14″ RGB monitor
brightness and contrast controls
graphics resolution (max) 640 × 200 pixels

SOUND

Sound circuitry with built-in loud-speaker and volume control

PRINTER INTERFACE

8-bit parallel interface (centronics) for printer connection

KEYBOARD

PC industry standard
86 key layout

Connected by a detachable 1.2m extendable coiled cable it features:
tactile feedback
low profile design
sculptured key layout
inclination (3 levels)
full n-key roll-over
housing for mouse interface

Dimensions

Basic unit: w 322 × h 82 × d 382 mm
Display: w 304 × h 240 × d 310 mm
Keyboard: w 466 × h 28 × d 195 mm
I/O Expansion box: w 135 × h 82 × d 382 mm

COMMUNICATIONS

Serial interface for peripheral connection and asynchronous communication (EIA RS 232 C, C CITT V 24). Transmission rate is software selectable from 50 to 9600 baud.

MASS STORAGE DEVICES

360K slim size floppy disc unit
5.25" double size/double density
Average access time (including setting time): 93ms
Transfer rate: 250Kbit/s
Track density: 48 tpi

20Mbyte slim size hard disc unit
1 × 3.5" platter; 2 read/write heads
Average access time (including setting time): 96ms
Transfer rate: 5Mbit/s
Track density: 600 tpi
Track to track access time: 18ms
Number of tracks: 306
Controller board: SCSI type

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Designed by Qualis, Cambridge