



# Macintosh Centris 610

## Technical Specifications

### Microprocessor

- > MC68040, running at 20-MHz clock speed; 32-bit data bus; no floating point unit (FPU)
- > Integral Paged Memory Management Unit (PMMU) and 8K-cache architecture

### Memory

- > Comes with 4 MB of RAM on the logic board
- > Expandable to 68 MB of RAM by adding Single Inline Memory Modules (SIMMs) to two 72-pin slots
- > Includes RAM disk software

### Disk drives

- > One built-in Apple SuperDrive 1.4-MB floppy disk drive
- > One internal 80-, 230-, or 500-MB hard disk
- > Accommodates one 5.25-in. half-height device, such as the Apple CD 300i internal CD-ROM drive

### Video display

- > Supports all Apple displays
- > Works with a wide range of third-party displays, including some 19-in., VGA, SVGA, NTSC, and PAL monitors

### Video RAM (VRAM)

- > 512K standard supports:
  - 32,768 colors on the Macintosh 12-inch RGB Display
  - 256 colors on the AppleColor High-Resolution RGB Display (13"), Macintosh Color Display (14"), and Macintosh 16-inch Color Display
  - 256 shades of gray on the Macintosh 12-inch Monochrome Display
  - 16 shades of gray on the Macintosh Portrait Display (15")
  - 16 colors on the Macintosh 21-inch Color Display

### > 1,024K option supports:

- 32,768 colors on the Macintosh 12-inch RGB Display, AppleColor High-Resolution RGB Display (13"), Macintosh Color Display (14"), and Macintosh 16-inch Color Display
- 256 shades of gray on the Macintosh 12-inch Monochrome Display and Macintosh Portrait Display (15")
- 256 colors on the Macintosh 21-inch Color Display

### Interfaces

- > Internal expansion slot for one processor-direct or 7-inch NuBus expansion card (requires adaptor)
- > SCSI interface for connecting up to six external peripheral devices
- > AAUI-15 Ethernet connector (optional)
- > Two serial (RS-232/RS-422) ports
- > One video port for color and monochrome displays of various sizes and resolutions
- > One sound-output port (stereo) for external amplifier or headphones, and CD playthrough
- > One sound-input port for monaural sound input
- > Two Apple Desktop Bus (ADB) ports for a keyboard, mouse, and other devices

### Sound generator

- > Custom integrated circuit that drives a stereo miniature headphone jack (22 kHz sample rate)

### Keyboard and mouse

- > Several ADB keyboards with numeric keypads available
- > Apple Desktop Bus Mouse II

### Clock/calendar

- > Custom integrated circuit with long-life lithium battery

### Disability access

- > CloseView, Easy Access, and visible-beep software are built in. These and third-party options provide alternative input and output devices

### Power requirements

- > Line voltage: 100 to 240 V AC, RMS single phase, automatically configured
- > Frequency: 47 to 63 Hz
- > Power: 86 W maximum, not including display power

### ADB power requirements

- > Maximum current draw for all ADB devices: 500 mA (three ADB devices maximum recommended)
- > Mouse draws 10 mA
- > Keyboard draws 25 to 80 mA, (depending on the model used)

### Size and weight

#### Main Unit:

- > Height: 3.4 in. (8.5 cm)
- > Width: 16.3 in. (41.5 cm)
- > Depth: 15.6 in. (39.7 cm)
- > Weight\*: 14.0 lbs (6.4 kg)

#### Mouse:

- > Height: 1.3 in. (3.3 cm)
- > Width: 2.4 in. (6.2 cm)
- > Depth: 4.2 in. (10.7 cm)
- > Weight: 4.0 oz. (0.10 kg)

\*Weight will vary based on internal devices installed

### Operating environment

- > Operating temperature: 50°F to 104°F (10°C to 40°C)
- > Storage temperature: -40°F to 116.6°F (-40°C to 47°C)
- > Relative humidity: 5% to 95% noncondensing
- > Maximum altitude: 10,000 ft. (3,048 m)

## Ordering Information

### Macintosh Centris 610 4/80

Order No. M1345LL/A

- > Macintosh Centris 610 computer with 4 MB of RAM, 512K of VRAM, built-in 1.4-MB Apple SuperDrive, and internal 80-MB hard disk drive
- > Mouse
- > Complete setup, learning, and reference documentation
- > System software
- > Training disk
- > Limited warranty statement

### Other Macintosh Centris 610 configurations

- > 8 MB of RAM
- > Internal 230- or 500-MB hard disk
- > Internal AppleCD 300i CD-ROM drive
- > On-board Ethernet

### Macintosh Centris 610 NuBus Adaptor

Order No. M1402LL/A

- > Macintosh Centris 610 NuBus Adaptor
- > Limited warranty statement

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December 1992. Product specifications are subject to change without notice. Printed in U.S.A.  
L0378LL/A