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Centris 650: Specifications (Discontinued 10/93)

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Revised:        10/21/93
Security:       Everyone


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TOPIC -------------------------------------------------------------


This article provides technical specifications for the Macintosh Centris
650 computer.



DISCUSSION --------------------------------------------------------


Microprocessor
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• MC68040, running at 25-MHz clock speed, main logic board clock 25 MHz;
  32-bit data bus
• Optional, integrated 25-MHz math coprocessor (FPU).  All configurations
  except the 4MB configuration include an FPU.
• Integral Paged Memory Management Unit (PMMU), and 8K-cache architecture


Memory
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• Comes with 4MB of RAM on the logic board (8MB with Ethernet or AppleCD
  300i)
• Expandable to 132MB of RAM by adding SIMMs to four 72-pin slots.
  (Doesn't support 1MB, 2MB, or 64MB 72-pin SIMMs.)
• Includes RAM disk software


ROM
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• 1MB


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

- Three internal NuBus expansion slots
- One 68040 processor-direct slot
- SCSI interface for connecting up to six external 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 for stereo playback from CDs and stereo playback
  of Macintosh sound
- One monaural sound-input port
- 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

- Works with several ADB keyboards
- Apple Desktop Bus Mouse II

Clock/Calendar

- Custom integrated circuit with long-life lithium battery

Disability Access

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

Power Requirements

• Line voltage: 100 to 240 V AC, RMS, automatically configured
• Frequency: 50 to 60 Hz
• Power: 112 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: 6.0 in. (15.2 cm)
• Width: 13.0 in. (33.0 cm)
• Depth: 16.5 in. (41.9 cm)
• Weight: 25 lb. (11.3 kg) Varies depending on internal devices installed.

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)

Operating environment

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

Article Change History:

03/02/93 - Revised to mention 8MB RAM with Ethernet or AppleCD 300i, clarify
           FPU situation.
03/09/93 - Revised to add a note that it doesn't support 1MB, 2MB, or 64MB
           72-pin SIMMs.

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