# Macintosh Centris 610

## SYSTEM

**Introduced:** February 1993
**Discontinued:** October 1993
**Gestalt ID:** 52
**Form Factor:** Centris 610
**Weight (lbs.):** 14
**Dimensions (inches):** 3.4 H x 16.3 W x 15.6 D

**Codename:** Speedbump 610
**Oder Number:** M1444LL/A
**KB Article #:** 11375, 11376, 11379

## POWER

**Max. Watts:** 86
**Amps:** 1.70
**BTU Per Hour:** 294.12
**Voltage Range:** 100-240
**Freq'y Range (Hz):** 47-63
**Battery Type:** 3.6V lithium
☐ **Soft Power**
☒ **Monitor Power Outlet**

## PORTS

**ADB:** 2
**Video:** DB-15
**Floppy:** none
**SCSI:** DB-25
**GeoPort Connectors:** none
**Ethernet:** opt. AAUI-15
**Microphone Port Type:** Omni
☒ **Printer**    ☒ **Speaker**
☒ **Modem**    ☐ **Headphone**
☐ **Airport**    ☐ **Remote Control**

## VIDEO

**Built-in Display:** *none*

### Maximum Color Bit-depth[1] At:

| VRAM Speed: | VRAM Needed: | Video Configuration: | 512 x384 | 640 x400 | 640 x480 | 640 x870[2] | 800 x600 | 832 x624 | 1024 x768 | 1152 x870 | 1280 x1024 |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 100 ns | built in | 512K VRAM | 16 | n/a | 8 | 4 | 8 | 8 | 4 | 4 | n/a |
|  | 2x256K | 1MB VRAM | 16 | n/a | 16 | 8 | 16 | 16 | 8 | 8 | n/a |

[1] 1-bit = Black & White; 2-bit = 4 colors; 4-bit = 16 colors; 8-bit = 256 colors; 16-bit = Thousands; 24-bit = Millions
[2] The maximum color depth listed for 640x870 is 8-bit, reflecting the capabilities of the Apple 15" Portrait Display.

## LOGIC BOARD

**Main Processor:** 68LC040, 20 MHz
**PMMU:** integrated
**FPU:** none
**Data Path:** 32-bit, 20 MHz
**L1 Cache:** 8K
**L2 Cache:** none
**Secondary Processor:** none
**Slots:** 1 7" NuBus or PDS

## MEMORY

**Memory on Logic Board:** 4 MB
**Minimum RAM:** 4 MB
**Maximum RAM:** 68 MB
**RAM Slots:** 2    72-pin
**Minimum RAM Speed:** 80 ns
**RAM Sizes:** 4, 8, 16, 32 MB
**Install in Groups of:** 1

## SOFTWARE

☐ **Speech Recognition Supported**

**Addressing Modes:** 24-, 32-bit
**Original SSW:** 7.1
**Original Enabler:** System Enabler 040 v1.0

**ROM ID:** $067C
**ROM Version:** n/a
**ROM Size:** 1MB
**AppleTalk Version:** 57.0.4

**Supported Macintosh System Software:**

| | | | |
|---|---|---|---|
| ☐ A/UX 1.0 | ☐ NOS 1.11 | ☐ ProDOS | ☐ |
| ☐ A/UX 1.11 | ☐ NOS 1.3 | ☐ GS/OS | ☐ |
| ☐ A/UX 2.0 | ☐ NOS 2.0 | ☐ NeXTStep 1.x | ☐ |
| ☐ A/UX 3.0.1 | ☐ NOS 2.1 | ☐ NeXTStep 2.x | ☐ |
| ☐ A/UX 4.1.4 | ☐ LOS 7/7 | ☐ NeXTStep 3.x | ☐ |
| ☐ A/UX 4.1.4.1 | ☐ DOS 3.1 | ☐ OpenStep | ☐ |
| ☐ A/UX 4.1.5 | ☐ SOS 1.3 | ☐ <1.0 | ☐ |

## SOUND

**Microphone Port Type:** Omni
**Sound In:** mono, 8-bit
**Sound Out:** stereo, 8-bit
☐ **Built-in Microphone**

## STORAGE

☒ **Supports Internal CD-ROM**
**Floppy Size:** 1.44MB
**Floppy Inject:** auto
**Internal HD Size:** 80-500MB
**Internal HD Interface:** SCSI
**Original CD-ROM Speed:** 2x

## HISTORY

The Centris 610 was one of the first mid-range computers to include a 68040 processor and the first Mac to be housed in the now-familiar low-profile case. It was replaced in October 1993 with the Quadra 610, which had a 25 Mhz full 68040 processor, but was in all other ways the same. The Centris/Quadra 610 sold for $2,520.

Note:  n/a = information not available or not applicable