

# Apple Macintosh Desktop Computers

## Macintosh LC 475

### Product Description

The Apple® Macintosh® LC 475 is the computer for people who want 68040-based performance at an affordable price. Incorporating a powerful 25-megahertz 68LC040 microprocessor, the Macintosh LC 475 performs complex tasks at speeds that boost productivity. It offers all the key Macintosh advantages—such as ease of use and the unsurpassed ability to run thousands of applications, including the leading applications for education and business. And it meets the Environmental Protection Agency's Energy Star requirements for energy-efficient operation.

### Positioning

The fast, flexible, affordable new Macintosh for working, learning, and productivity. The Macintosh LC 475 provides versatility at an affordable price.

### Key Selling Points

- **Affordability.** The Macintosh LC 475 provides 68040-based processing power to fit almost any budget.
- **Performance.** The Macintosh LC 475 is the price/performance leader in its class, and it performs complex functions at impressive speeds.
- **Versatility.** The Macintosh LC 475 supports all Apple displays (including the Macintosh 21-inch Color Display). And it supports a library of more than 6,000 Macintosh applications, giving educators a wide variety of resources to help them expand their curriculums.

### Prospects

The Macintosh LC 475 is the perfect choice for students, educators, administrators, and educational institutions looking for powerful, easy-to-use computers for learning and working. It includes the features most users need; users avoid the expense of extra expansion slots they don't require.

### Q&A

*Will a logic board be available to upgrade other Macintosh LC computers to the Macintosh LC 475?*

Yes. The Macintosh LC 475 Logic Board Upgrade will be available for Macintosh LC II and LC III computers.

*What is the difference between the Macintosh Quadra® 605 and the Macintosh LC 475?*

These two new computers are functionally identical—they offer the same high level of performance, 68LC040 processor, and 25-megahertz clock speed. They do, however, differ in outward appearance, reflecting the different product lines to which they belong. These two computers are targeted to different markets, and therefore will not be available through the same channels.

## Macintosh Centris Line Transition

On October 21, 1993, Apple will introduce higher-performance versions of the Macintosh Centris™ 610 and 650, which will be named the Macintosh Quadra 610 and Macintosh Quadra 650.

This transition from Macintosh Centris to Macintosh Quadra is in accord with Apple's commitment to streamline the Macintosh line and reposition some products to offer our customers much more clearly defined (and, therefore, easier-to-make) choices.

### Macintosh Quadra 610

The only difference between the Macintosh Centris 610 and the Macintosh Quadra 610 is a 25 percent increase in speed. The clock speed of the Macintosh Quadra 610 has been increased from 20 megahertz to 25 megahertz, improving the product's price/performance ratio.

### Macintosh Quadra 650

The only difference between the Macintosh Centris 650 and the Macintosh Quadra 650 is an increase in speed. The clock speed of the Macintosh Quadra 650 has been increased from 25 megahertz to 33 megahertz, improving the product's price/performance ratio.

### Q&A

*Does this transition leave the new Macintosh Centris 660AV as the only product in the Macintosh Centris line?*

No. The Macintosh Centris 660AV will be renamed the Macintosh Quadra 660AV as soon as we can smoothly make the transition. This is a name change only; there will be no product revisions with the transition to the Macintosh Quadra name.



# Apple Macintosh Desktop Computers

## By selling up:

- + Increased performance
- + Modular design, allowing choice of displays
- + Built-in support for more displays
- + Greater memory expansion
- Built-in microphone

## By selling up:

- + More than twice the performance
- + Supports all Apple displays
- + Up to 16-bit color on Macintosh 16-inch Color Display
- + Stereo sound input/output

## By selling up from the Macintosh LC 475 to the Macintosh LC 520:

- + Built-in 14-inch color display
- + Integrated AppleCD™ 300i CD-ROM drive
- + Integrated microphone
- + Stereo-quality speakers
- Modular design, allowing choice of displays
- 68LC040 microprocessor, faster performance

## By selling up from the Macintosh LC 475 to the Macintosh Quadra 610:

- + On-board Ethernet
- + NuBus™ expansion slot
- + More memory expansion (up to 68MB)
- + One 5.25-inch bay for an internal CD-ROM drive or other storage device



	Macintosh Color Classic®	Macintosh LC III	Macintosh LC 475	Macintosh LC 520
CPU	68030 at 16 MHz; 16 bit	68030 at 25 MHz; 32 bit	68LC040 at 25 MHz	68030 at 25 MHz; 32 bit
FPU	Optional	Optional	None	Optional
RAM expansion	4MB expandable to 10MB (30 pin)	4MB expandable to 36MB (72 pin)	4MB expandable to 36MB (72 pin)	4MB expandable to 36MB (72 pin)
Expansion slots	One LC processor-direct slot (PDS)	One LC PDS	One; compatible with LC PDS	One LC PDS
Expansion bays	None	None	None	None
Hard disk drives	80MB, 160MB	80MB, 160MB	80MB, 160MB	80MB, 160MB
Built-in video support	Built-in 10" Sony Trinitron® color display	12" Mono, 12" RGB, 14" RGB, 15" Portrait, 16" RGB; some VGA displays	12" Mono, 12" RGB, 14" RGB, 15" Portrait, 16" RGB, 21" RGB; some VGA, SVGA, 19" displays	Built-in 14-inch Macintosh Color Display with Sony Trinitron tube
Video expansion	8 bit expandable to 16 bit with 256K upgrade 8 bit = 256 colors 16 bit = 32,768 colors 32 bit = 16.7 million colors	8 bit expandable to 16 bit on 14" RGB with 256K upgrade	8 bit expandable to 16 bit on 16" RGB (8 bit on 21" RGB) with upgrade to 1MB	Built-in 16 bit
Networking	Built-in AppleTalk®	Built-in AppleTalk	Built-in AppleTalk	Built-in AppleTalk
SCSI support	Standard SCSI	Standard SCSI	High-performance SCSI	Standard SCSI
Ports	Two serial ports, SCSI port, two Apple Desktop Bus™ (ADB) ports, sound-input/output ports; integrated microphone	Two serial ports, SCSI port, ADB port, video-output port, sound-input/output ports	Two serial ports, SCSI port, ADB port, video-output port, stereo sound-input/output ports	Two serial ports, SCSI port, two ADB ports, stereo sound-input/output ports



**By selling up:**

- + More than 25% performance increase over Macintosh Quadra 610
- + Twice the memory expansion
- + Three NuBus slots
- + 040 PDS

**By selling up:**

- + 55-MHz AT&T 3210 digital signal processor
- + GeoPort™ integrated telecommunications capabilities
- + Advanced video-input/output capabilities
- + 16-bit stereo sound input/output
- + PlainTalk™ integrated speech technology
- Two NuBus slots

**By selling up:**

- + Twice the memory expansion
- + Two 3.5-inch bays for an internal hard disk or other 3.5-inch storage devices
- + Two NuBus slots
- Apple AV Technologies

**By selling up:**

- + Up to 20% higher performance over Macintosh Quadra 800
- + 66-MHz AT&T 3210 digital signal processor
- + GeoPort integrated telecommunications capabilities
- + Advanced video-input/output capabilities
- + PlainTalk integrated speech technology
- + 24-bit color support
- + Higher-performance NuBus with DAV connector

**By selling up:**

- + Greater memory expansion (up to 256MB)
- + Two additional 5.25-inch bays
- + Dual-channel SCSI architecture
- + Two more NuBus slots (total of five)
- Apple AV Technologies
- Two 3.5-inch bays



**Macintosh Quadra 610**

**Macintosh Quadra 650**

**Macintosh Quadra 660Av\***

**Macintosh Quadra 800**

**Macintosh Quadra 840Av**

**Macintosh Quadra 950**

68040 at 25 MHz	68040 at 33 MHz	68040 at 25 MHz; 55-MHz AT&T 3210 digital signal processor	68040 at 33 MHz	68040 at 40 MHz; 66-MHz AT&T 3210 digital signal processor	68040 at 33 MHz
Built in	Built in	Built in	Built in	Built in	Built in
8MB expandable to 68MB (72 pin)	8MB expandable to 136MB (72 pin)	8MB expandable to 68MB (72 pin)	8MB expandable to 136MB (72 pin)	8MB expandable to 128MB (72 pin)	8MB expandable to 256MB (30 pin)
One slot for a 7-inch NuBus or PDS card	Three NuBus, one in-line 040 PDS	One slot for a 7-inch NuBus or PDS card (requires adapter)	Three NuBus, one in-line 040 PDS	Three NuBus, one with DAV (digital audio/video) connector	Five NuBus, one in-line 040 PDS
One 5.25-inch bay	One 5.25-inch bay	One 5.25-inch bay	One 5.25-inch bay, two 3.5-inch bays	One 5.25-inch bay, two 3.5-inch bays	Three 5.25-inch bays
160MB, 230MB	80MB, 230MB, 500MB	80MB, 230MB, 500MB	230MB, 500MB, 1GB	230MB, 500MB, 1GB	230MB, 500MB, 1GB
12" Mono, 12" RGB, 14" RGB, 15" Portrait, 16" RGB, 21" RGB; some VGA, SVGA, 19" displays	12" Mono, 12" RGB, 14" RGB, 15" Portrait, 16" RGB, 21" RGB; some VGA, SVGA, 19" displays	12" Mono, 12" RGB, 14" RGB, 15" Portrait, 16" RGB, 21" RGB; some VGA, SVGA, 19" displays	12" Mono, 12" RGB, 14" RGB, 15" Portrait, 16" RGB, 21" RGB; some VGA, SVGA, 19" displays	12" Mono, 12" RGB, 14" RGB, 15" Portrait, 16" RGB, 21" RGB; some VGA, SVGA, 19" displays	12" Mono, 12" RGB, 14" RGB, 15" Portrait, 16" RGB, 21" RGB; some VGA, SVGA, 19" displays
8 bit expandable to 16 bit on 14" RGB and 16" RGB with 512K upgrade	8 bit expandable to 16 bit on 14" RGB and 16" RGB with 512K upgrade	Built-in 16 bit on 14" RGB and 16" RGB, 8 bit on 21" RGB	8 bit expandable to 16 bit on 14" RGB and 16" RGB with 512K upgrade	24 bit on 14" and 16" RGB, 16 bit on 21" RGB with 1MB upgrade	16 bit expandable to 24 bit on 14" RGB and 16" RGB (16 bit on 21" RGB) with 1MB upgrade
Built-in AppleTalk and Ethernet	Built-in AppleTalk and Ethernet	Built-in AppleTalk and Ethernet	Built-in AppleTalk and Ethernet	Built-in AppleTalk and Ethernet	Built-in AppleTalk and Ethernet
High-performance SCSI	High-performance SCSI	High-performance SCSI	High-performance SCSI	High-performance SCSI	Dual-channel high-performance SCSI
Two serial ports, SCSI port, two ADB ports, video-output port, sound-input/output ports	Two serial ports, SCSI port, two ADB ports, video-output port, sound-input/output ports	Two serial ports, SCSI port, ADB port, two video-input ports, two video-output ports, 16-bit stereo sound-input/output ports	Two serial ports, SCSI port, two ADB ports, video-output port, sound-input/output ports	Two serial ports, SCSI port, ADB port, two video-input ports, two video-output ports, 16-bit stereo sound-input/output ports	Two serial ports, SCSI port, ADB port, video-output port, sound-input/output ports

\*The Macintosh Quadra 660Av was previously named the Macintosh Centris 660Av.

## Additional Information

For additional information on Macintosh desktop computers, please refer to the following materials:

### Brochures

An Overview of Apple Products	I.0548LL/A
Apple Scanners, Displays, and Printers	I.0502LL/A

### Data Sheets

Macintosh Color Classic	I.0377LL/A
Macintosh LC III	I.0381LL/A
Macintosh LC 475	I.0559LL/A
Macintosh LC 520	I.0448LL/A
Macintosh Quadra 610	I.0560LL/A
Macintosh Quadra 650	I.0562LL/A
Macintosh Quadra 660 <sub>av</sub>	I.0563LL/A
Macintosh Quadra 800	I.0380LL/A
Macintosh Quadra 840 <sub>av</sub>	I.0512LL/A
Macintosh Quadra 950	I.0253LL/A
AudioVision™ 14 Display	I.0513LL/A
Macintosh 12" Monochrome Display	M.0916LL/B
Macintosh Portrait Display	M.0117LL/C
Macintosh Color Display	I.0306LL/A
Macintosh 16" Color Display	I.0152LL/C
Macintosh 21" Color Display	I.0027LL/B
Apple Basic Color Monitor	I.0402LL/A

### Reference Guides

AppleFacts 8.93	I.0327LL/C
AppleFacts 11.93 Supplement	I.0556LL/A