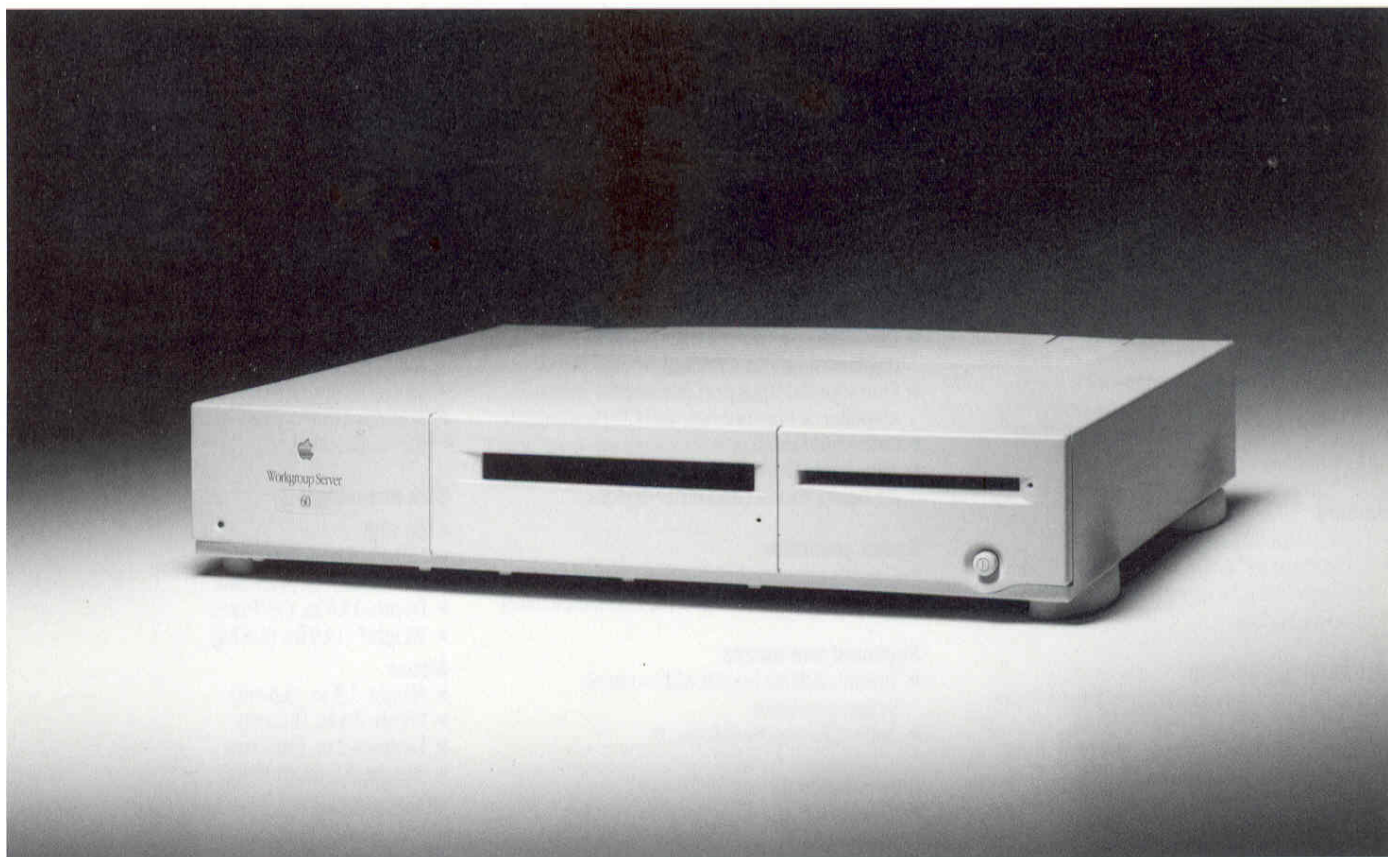




# Apple Workgroup Server 60



The Apple Workgroup Server 60 provides file and print server capability with the performance, reliability, and ease of administration needed by small and medium-sized workgroups. The most affordable of Apple's server family, this system is based on the 20-megahertz Motorola 68040 microprocessor. With built-in Ethernet and AppleTalk networking capability, this product allows 150 users to connect to the server, and allows up to 20 users to read from and write to the server at the same time.

The Apple Workgroup Server 60 gives you flexibility and choice. You can choose a configuration with a 230 MB internal hard disk or with a 500 MB internal hard disk and an internal CD-ROM drive. (The configuration with an internal CD-ROM drive is pictured above.) A high-speed SCSI interface lets you add peripheral devices, such as hard disks and other high-capacity storage devices.

The Apple Workgroup Server 60 continues the "plug and play" tradition established by the Macintosh. System 7 and high-performance AppleShare 4.0 file and print server software is preloaded, so all you do is attach your monitor, keyboard, power cables, and network connection, and in minutes the server is available to users. Because it's a snap to maintain, manage, and reconfigure, over the long run the Apple Workgroup Server 60 offers the lowest cost of ownership in its class.\*

To provide an entry-level file and print server solution for your small business, classroom, or similar environment, build your solutions around the Apple Workgroup Server 60.

\*Based on a report by Business Research Group, Newton, MA.

## Apple Workgroup Server 60 Features

### Expansion

- ▶ Supports up to seven SCSI devices (two internal) such as disk drives, scanners, and printers
- ▶ Includes ports for Ethernet, modem, stereo output, and sound input
- ▶ Contains slot for additional expansion card
- ▶ Allows you to add internal CD-ROM drive

### Networking

- ▶ Built-in Ethernet and LocalTalk capability
- ▶ Full support for AppleTalk networking protocols

### Compatibility

- ▶ Reads Macintosh, MS-DOS, OS/2, and ProDOS floppy disk formats

### Power and speed

- ▶ 20 MHz 68040 microprocessor; 32-bit data bus

### Memory

- ▶ 8 MB of RAM, expandable to 68 MB

### Display

- ▶ Works with all Apple monitors

### Usability

- ▶ Easy to set up, learn, use, and expand

### System software

- ▶ System 7 operating system
- ▶ AppleShare 4.0 file and print server software

# Apple Workgroup Server 60

## Technical Specifications

### System software

- ▶ System 7 operating system provides multi-tasking, file sharing, program linking, QuickTime, publish and subscribe, TrueType, and more
- ▶ AppleShare 4.0 delivers secure, high-performance file and print service, with cross-platform support that gives DOS and Windows users transparent access

### 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

### Memory

- ▶ Comes with 8 MB of RAM
- ▶ Expandable to 68 MB of RAM through addition of Single Inline Memory Modules (SIMMs) to two 72-pin slots

### Mass storage devices

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

### Video display

- ▶ 512K VRAM standard, can support up to 1024K
- ▶ Supports all Apple monitors
- ▶ Works with a wide range of third-party monitors, including some 19-inch, VGA, SVGA, NTSC, and PAL monitors

### Interfaces

- ▶ Internal expansion slot for one processor-direct or 7-inch NuBus expansion card (requires NuBus adapter card # M1402LL/A)
- ▶ SCSI interface for connecting up to six external peripheral devices, depending on configuration
- ▶ AAUI Ethernet connector
- ▶ Two serial 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 is 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 (recommended maximum of three ADB devices)
- ▶ 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

### Configuration Summary

	Order Number	
	M1780LL/A	M1781LL/A
Ethernet	Built in	Built in
Hard disk	230 MB	500 MB
CD-ROM	Optional	Included

Both configurations include these items:

- ▶ 8 MB of memory
- ▶ Mouse
- ▶ Apple SuperDrive
- ▶ AppleShare 4.0 file and print software
- ▶ System 7.1 software
- ▶ Apple Documentation Viewer preloaded on the hard drive
- ▶ Complete on-line and hard-copy documentation
- ▶ Limited warranty statement

Note: Keyboard, monitor, and appropriate Ethernet transceiver sold separately.

### Service and Support

- ▶ 24-hour telephone support
- ▶ On-site service options

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June 1993. Product specifications are subject to change without notice. Printed in U.S.A.  
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