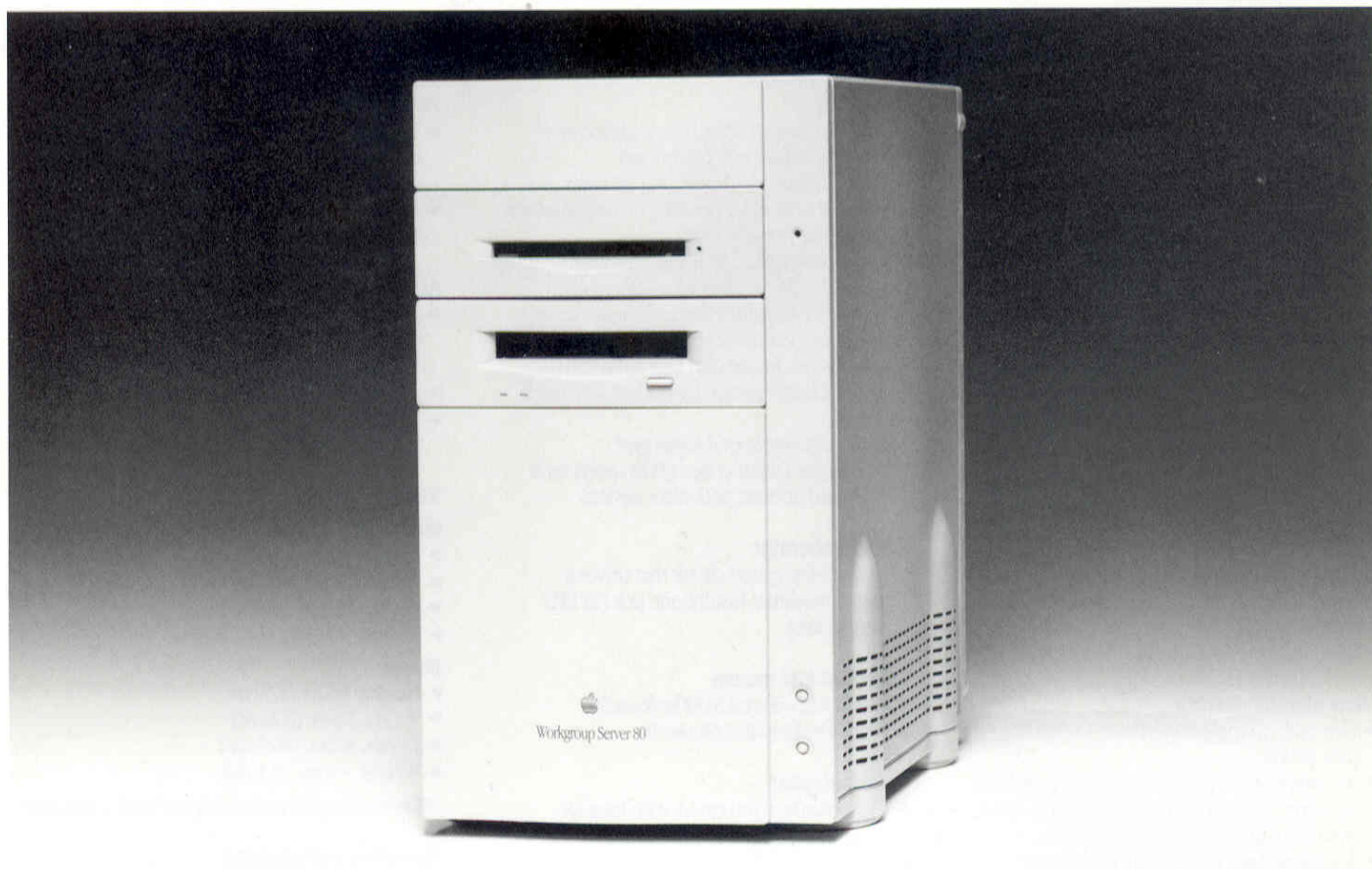


Apple Workgroup Server 80



The Apple Workgroup Server 80 provides file and print, database, or communications services with the high performance, reliability, scalability, and ease of administration needed by medium-sized workgroups. This mid-range representative of Apple's server family is based on the fast 33-megahertz Motorola 68040 microprocessor. With built-in Ethernet and AppleTalk networking capability, this product allows up to 150 users to connect to the server; and allows up to 30 users to read from and write to the server at the same time. It can act as a communications server if you install applications such as Apple's SNA • ps, MacX25, or MacX.400 gateway products, or the Apple Internet Router.

The Apple Workgroup Server 80 can expand to include up to 136 MB of RAM, three NuBus™ cards, and up to three additional high-capacity storage devices, such as the DAT 4mm tape drive shown in the picture above.

Apple servers continue 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 system components, and in minutes the server is available to users. Retrospect Remote backup software safeguards system and data files easily and automatically. Because it's a snap to maintain, manage, reconfigure, and expand, over the long run the Apple Workgroup Server 80 offers the lowest cost of ownership in its class.*

To provide a midrange file and print server solution for your business, to supply classroom-to-campus integration, or to meet other communications requirements, build your solutions around the Apple Workgroup Server 80.

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

Apple Workgroup Server 80 Features

Expansion

- ▶ Supports up to 9 GB of mass storage
- ▶ Has room for three internal storage devices, such as the AppleCD 300i internal CD-ROM drive and internal DDS-DC 4mm tape drive
- ▶ Three NuBus 12" expansion slots
- ▶ One inline 68040 processor-direct slot

Networking

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

Compatibility

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

Power and speed

- ▶ 33 MHz 68040 processor
- ▶ Integrated 33 MHz math coprocessor
- ▶ 8K integrated cache

Memory

- ▶ 8 MB or 16 MB of RAM, expandable to 136 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 80

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 33 MHz clock speed
- ▶ Integrated 33 MHz floating-point unit (FPU)
- ▶ Integral Paged Memory Management Unit (PMMU) and 8K cache

Memory

- ▶ Comes with 8 MB of RAM on the main logic board
- ▶ Four industry-standard 72-pin Single Inline Memory Module (SIMM) sockets allow expansion to 136 MB
- ▶ Includes RAM disk software

Mass storage devices

- ▶ One built-in Apple SuperDrive 1.4 MB floppy disk drive
- ▶ Accommodates one full-height, 3.5-inch hard disk drive and one removable 3.5-inch device, such as an internal DDS-DC tape drive
- ▶ Accommodates one 5.25-inch, half-height device such as the AppleCD 300i internal CD-ROM drive

Video display

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

Interfaces

- ▶ Three internal NuBus 12" expansion slots
- ▶ One 68040 processor-direct slot
- ▶ SCSI interface for connecting up to six external devices, depending on configuration
- ▶ AAUI Ethernet connector
- ▶ Two serial ports, 230.4 Kbit/sec. maximum (up to 0.920 Mbit/sec. if clocked externally)
- ▶ 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 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, automatically configured
- ▶ Frequency: 50 to 60 Hz, single phase
- ▶ Power: 200 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: 14.25 in. (30.6 cm)
- ▶ Width: 8.9 in. (19.6 cm)
- ▶ Depth: 16.0 in. (39.6 cm)
- ▶ Weight*: 25.3 lb. (11.5 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			
	M1784LL/A	M1677LL/A	M1681LL/A	M1685LL/A
Memory	8 MB	8 MB	16 MB	16 MB
Hard Disk	500 MB	500 MB	1000 MB	1000 MB
CD-ROM	Optional	Optional	Optional	Included
DDS-DC tape	Optional	Included	Included	Included
Backup Software	Optional	Retrospect Remote	Retrospect Remote	Retrospect Remote

All configurations include these items:

- ▶ 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 option

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