



# Workgroup Server 9150

## Features

### Expansion and storage

- Four NuBus slots for expansion cards
- One processor-direct slot (PDS)
- Two internal 1GB or 2GB hard disk drives
- Space for a total of five internal 3.5-inch half-height hard disk drives
- Internal DDS-2 Digital Audio Tape (DAT) drive
- Internal double-speed CD-ROM drive
- Retrospect Remote automatic server and client backup software
- Apple RAID software
- Two SCSI DMA buses to support up to 14 devices (7 internal, 7 external)
- Nine ports to support a wide range of peripherals

### Networking

- Built-in Ethernet and LocalTalk capabilities
- Support for AppleTalk networking protocols
- Token Ring support optional (with expansion card)

### Power, speed, and memory

- 80-MHz PowerPC 601 RISC microprocessor with floating-point processor and 32K on-chip cache
- 512K level-2 cache
- 16MB of RAM, expandable to 264MB

## Features Built Into Every Workgroup Server

### Fast, easy setup

- Comes with System 7 software installed
- Includes AppleShare 4.0.2 file and print server software (in some configurations)

### Compatibility

- Runs Apple server software and third-party server applications
- Supports Macintosh and Power Macintosh desktop clients, as well as clients running Windows and MS-DOS, depending on server software\*
- Reads Macintosh, Windows, MS-DOS and OS/2 floppy disk formats

### Service and support\*\*

- Includes 24-hour telephone support
- Includes within-two-business-day, on-site service response
- Offers optional within-four-hour or next-business-day on-site service response

\*Additional third-party server software may be required and must be purchased separately.

\*\*These services are available only in the United States.

\*Available Summer of 1994

The Workgroup Server 9150 is the most expandable and powerful member of the PowerPC processor-based Workgroup Server family from Apple. It delivers file and print, database and communications capabilities that meet the needs of growing workgroups in education, business, and publishing.

Delivering all the benefits of PowerPC performance—while maintaining Macintosh ease of use—the Workgroup Server 9150 features an 80-megahertz PowerPC 601 processor, on-chip and level-2 cache, two large-capacity hard disk drives with space for three more, Retrospect Remote automatic client and server backup software, and responsive service and support.

Apple RAID (Redundant Array of Independent Disks) software<sup>1</sup>, also included, continually updates a mirror

image of your files across several disk drives, providing increased data security in case one drive fails. Or, for increased performance, Apple RAID software improves disk speed by striping—storing one file in small pieces on multiple hard drives.

Not only is the Workgroup Server 9150 easy to set up and administer, it's also designed to work with easy-to-use server software programs such as AppleShare, AppleSearch, Apple Remote Access, and PowerShare collaboration server, as well as third-party server software. And it's perfect for publishing, database, accounting, electronic-mail, calendar, and remote-access applications.

So if you need a server for a large and expanding workgroup that runs sophisticated applications, we have the solution: the powerful and expandable Workgroup Server 9150.





# Workgroup Server 9150

## Ordering Information

### Workgroup Server 9150 (16MB/2 x 1GB)

Order No. M3272LL/A

- Workgroup Server 9150 with 16MB of RAM, 512K of level-2 cache, two 1GB hard disk drives, CD-ROM drive, DDS-2 DAT drive, CD-ROM drive, and 1.4MB Apple SuperDrive floppy disk drive
- Mouse
- System 7 software
- Retrospect Remote software
- Apple RAID software
- Complete setup, learning, and reference documentation
- Limited one-year warranty

### Workgroup Server 9150 with AppleShare (16MB/2 x 1GB/AppleShare)

Order No. M3357LL/A

- Identical to above configuration, with the addition of AppleShare software version 4.0.2

### Workgroup Server 9150 (24MB/2 x 2GB)

Order No. M3183LL/A

- Workgroup Server 9150 with 24MB of RAM, 512K of level-2 cache, two 2GB hard disk drives, CD-ROM drive, DDS-2 DAT drive, CD-ROM drive, and 1.4MB Apple SuperDrive floppy disk drive

### Workgroup Server 9150 Logic Board Upgrade

Order No. M3262LL/A

- Upgrades a Macintosh Quadra 900 or 950 to a Workgroup Server 9150.
- Includes 8MB of RAM, Apple RAID software; AppleShare software must be purchased separately. Additional RAM required.

*Note: This upgrade is not for the Workgroup Server 95.*

### Macintosh Memory Expansion Kits

Order No. M1507LL/A

- 4MB (1-4MB SIMM)

Order No. M1508LL/A

- 8MB (1-8MB SIMM)

Order No. M3372LL/A

- 16MB (1-16MB SIMM)

Order No. M3373LL/A

- 32MB (1-32MB SIMM)

*Note: SIMMs must be installed in pairs by authorized Apple service provider. The Workgroup Server 9150 has four pairs of SIMM sockets, some of which may be occupied.*

### Apple Token Ring NB/c Card (7-inch)

Order No. M1769Z/A

### Apple Token Ring 4/16 Card (12-inch)

Order No. M0415LL/B

*Product specifications are subject to change. Check with your Apple reseller for the most current information about product specifications and configurations.*

## Technical Specifications

### Microprocessor

- PowerPC 601 RISC microprocessor running at 80 MHz
- Integrated floating-point unit and 32K on-chip cache
- 512K level-2 cache

### Memory

- 16MB or 24MB of RAM
- Can be expanded to up to 264MB of RAM

### Drives

- Two 1GB or 2GB Apple hard disk drives
- One DDS-2 DAT drive (4MB uncompressed, 10-14GB compressed)
- One AppleCD 300i Plus CD-ROM drive (up to 342K-per-second streaming data-transfer rate)
- One Apple SuperDrive 1.4MB floppy disk drive that uses high-density floppy disks and reads, writes, and formats Macintosh, Windows, MS-DOS and OS/2 disks

### Apple RAID Software<sup>1</sup>

- Disk mirroring (RAID Level 1) for redundancy and reliability; stores the same current data on two different disks
- Disk striping (RAID Level 0) for better performance; stores one file in several small chunks across several disk drives; does not provide data redundancy

*Note: For information on hard disk drives and arrays that are compatible with Apple RAID software, call Apple customer service at 1-800-SOS-APPLE.*

### Displays

- Supports up to 14-inch Apple displays at 32,768 colors, and 16- and 17-inch Apple displays at 256 colors
- Supports most third-party displays as well as VGA and SVGA monitors

### Video support

- Built-in DRAM display support

### Interfaces

- Four NuBus expansion slots
- One processor-direct slot
- One Apple Desktop Bus (ADB) port for a keyboard, mouse, and other device
- AAUI-15 Ethernet connector
- Two DMA serial (RS-232/RS-422) ports compatible with LocalTalk
- Dual-channel, high-speed asynchronous SCSI DMA interface; one supports up to seven external SCSI devices, the other supports up to seven internal SCSI devices (for a total of 14)
- 16-bit stereo sound input and output ports
- DB-15 video port for display support

### Networking

- Built-in Ethernet
- Two serial ports for LocalTalk

### Clock/calendar

- Custom integrated circuit with long-life lithium battery

### Disability access

- Easy Access and visible beep included with system software to provide alternative input and output devices for people with disabilities

### Electrical requirements

- Line voltage: 100 to 240 volts AC, RMS single phase, automatically configured
- Frequency: 50 to 60 Hz, single phase
- Power: 303 W maximum, not including display

### ADB power requirements

- Maximum current draw for all ADB devices: 500 mA (a maximum of three ADB devices is recommended)
- Mouse draws 10 mA
- Keyboard draws 25 to 80 mA (varies with keyboard model used)

### Keyboard and mouse

- Supports ADB keyboards with numeric keypads
- ADB Mouse II included

### Size and weight

- Height: 18.6 in. (47.3 cm)
- Width: 8.9 in. (22.4 cm)
- Depth: 20.6 in. (52.3 cm)
- Weight: 36.8 lbs. (16.7 kg) (varies based on internal devices installed)

### Operating environment

- Operating temperature: 50° to 95° F (10° to 35° C)
- Storage temperature: -40° to 116.6° F (-40° to 116.6° C)
- Relative humidity: 20% to 80% noncondensing
- Maximum altitude: 10,000 ft. (3,048 m)

### Regulatory approval

- FCC Class A

<sup>1</sup> Available Summer of 1994

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