



# Workgroup Server 8150

## Features

### Expansion and storage

- Three NuBus slots for expansion cards
- One processor-direct slot
- Internal 1GB hard disk drive
- 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
- Support for up to eight SCSI devices (three internal, five 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
- 256K 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.*

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

The Workgroup Server 8150 is the midrange member of the PowerPC processor-based Workgroup Server family from Apple. It's designed to meet the varied price, performance, and expansion needs of medium-sized workgroups in education, business, and publishing.

Delivering all the benefits of PowerPC performance—while maintaining Macintosh ease of use—the Workgroup Server 8150 features an 80-megahertz PowerPC 601 processor, on-chip and level-2 cache, a large-capacity hard disk drive, 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 8150 easy to set up, it's also designed to work with easy-to-use Apple 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 server applications.

If you're looking for a server that can accommodate today's budget and expand to handle tomorrow's demands, the Workgroup Server 8150 is likely to bring your search to a very positive conclusion.





# Workgroup Server 8150

## Ordering Information

### Workgroup Server 8150

Order No. M3300LL/A

- Workgroup Server 8150 with 16MB of RAM, 256K level-2 cache, 1GB hard disk 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
- Power Macintosh Display Adapter
- Complete setup, learning, and reference documentation
- Limited one-year warranty

### Workgroup Server 8150 with AppleShare

Order No. M3359LL/A

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

### Workgroup Server 8150 Logic Board Upgrade

Order No. M2915LL/A

- Upgrades a Workgroup Server 80 to a Workgroup Server 8150 (must be installed by an Apple authorized service provider); includes AppleShare 4.0.2, Apple RAID software, and Retrospect Remote software upgrade

### 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 an authorized Apple service provider. The Workgroup Server 8150 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.*

## Apple Computer, Inc.

1 Infinite Loop  
Cupertino, CA 95014  
(408) 996-1010  
TLX 171-576

## Technical Specifications

### Microprocessor

- PowerPC 601 RISC microprocessor running at 80 MHz
- Integrated floating-point unit and 32K on-chip cache
- 256K level-2 cache

### Memory

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

### Drives

- One 1GB Apple hard disk drive
- One DDS-2 DAT drive (4MB uncompressed, 10-14MB 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: To take advantage of RAID, an additional disk must be purchased. 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

- Three NuBus expansion slots
- One processor-direct slot
- One Apple Desktop Bus (ADB) port for a keyboard, mouse, and one additional ADB device
- AAUI-15 Ethernet connector
- High-density display port supports Apple AudioVision monitors directly and supports other displays via a Power Macintosh Display Adapter (included)
- Two DMA serial (RS-232/RS-422) ports compatible with LocalTalk
- Dual-channel, high-speed asynchronous SCSI DMA interface; one channel supports up to five external and two internal SCSI devices, the other channel supports an internal hard disk
- 16-bit stereo sound input and output ports

### 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: 200 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: 14.25 in. (30.6 cm)
- Width: 8.9 in. (19.6 cm)
- Depth: 16.0 in. (39.6 cm)
- Weight: 25.3 lbs. (11.5 kg) (varies based on internal devices installed)

### Operating environment

- Operating temperature: 50° to 104° F (10° to 40° 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

© 1994 Apple Computer, Inc. All rights reserved. Apple, the Apple logo, AppleShare, AppleTalk, LocalTalk, and Macintosh are trademarks of Apple Computer, Inc., registered in the U.S.A. and other countries. AppleCD, AppleDesktop Bus, AppleSearch, Apple SuperDrive, AudioVision, Power Macintosh, and PowerShare are trademarks of Apple Computer, Inc. MS-DOS is a registered trademark of Microsoft Corporation. NuBus is a trademark of Texas Instruments. PowerPC is a trademark of International Business Machines Corporation, used under license therefrom. Retrospect and Retrospect Remote are registered trademarks of Dantz Development Corporation. Mention of non-Apple products or services is for informational purposes only and constitutes neither an endorsement nor a recommendation. Apple assumes no responsibility with regard to the selection, performance, or use of these products. All understandings, agreements, and warranties, if any, take place directly between the vendors and the prospective users. April 1994. Product specification information as of April 1, 1994. Product specifications may vary depending on particular configuration or region in which purchased, and are subject to change without notice. Please see your Apple reseller for the most current information about product specifications and configurations. Printed in the United States of America.