



# Workgroup Server 8150/110

## Features

### Expansion and storage

- Three NuBus slots for expansion cards
- One processor-direct slot
- Up to two internal 1GB, 2GB, or 4GB hard disk drives
- Internal DDS-2 Digital Audio Tape (DAT) drive (some configurations)
- Internal quadruple-speed CD-ROM drive
- Two SCSI DMA buses to support up to nine devices (three internal, six external)
- Eight ports support a wide range of peripherals

### Networking

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

### Power, speed, and memory

- 110-MHz PowerPC 601 RISC micro-processor 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 7.5.1 software installed
- Includes AppleShare 4.1 file and print server software (some configurations)

### Compatibility

- Comes with AppleShare Client for Windows
- Can be ordered as part of the Apple Internet Server Solution for the World Wide Web

### Bundled software

- Includes a variety of server administration and user productivity tools, including Apple RAID Software and Retrospect Remote (with DAT drive configurations)

### Service and support<sup>1</sup>

- 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

<sup>1</sup>These services are available only in certain areas of the United States.

<sup>2</sup>Apple RAID mirroring or striping requires at least two disk drives.

The Workgroup Server 8150/110 is the midrange member of the PowerPC processor-based Workgroup Server family from Apple. It delivers the file and print, database, Internet, and applications server capabilities that meet the needs of medium-sized workgroups in education, business, and publishing. And it's ideal for workgroups that use both Macintosh and Windows software-based computers.

Servers are high-performance, highly reliable systems that provide organizations with faster, more efficient shared network services and secure centralized storage. The Workgroup Server 8150/110 not only meets these criteria, it also runs the Mac OS, making all of its capabilities incredibly easy to use.

Featuring a 110-megahertz PowerPC 601 processor with on-chip and level-2 cache, the Workgroup Server 8150/110 delivers outstanding performance. This power is supported by a large-capacity hard disk drive for convenient, comprehensive storage and a quadruple-speed CD-ROM drive. And increased reliability is provided by a DAT drive, Retrospect Remote backup software, and Apple RAID (Redundant Array of

Independent Disks) Software, which supports disk mirroring for increased data reliability and disk striping for improved performance.<sup>2</sup>

To make sure that you get the most out of all that power and capacity, the Workgroup Server 8150/110 comes with additional software. For users, there's everything from server-based contact management and scheduling software to solutions that allow workgroups to create, share, and review information electronically. For network managers, there's software to help manage application distribution and updates, server usage, and remote administration. And the Workgroup Server 8150/110 includes AppleShare Client for Windows software, so Windows users on the network can access networked printers and files stored on a Workgroup Server running AppleShare file and print sharing software.

So if you want a server that can accommodate today's budget and expand to handle tomorrow's demands, the Workgroup Server 8150/110 is the server you've been waiting for.





# Workgroup Server 8150/110

## Ordering Information

### Workgroup Server 8150/110 (16MB/1GB/CD/DAT)

Order No. M4042LL/A

- Workgroup Server 8150/110 with 16MB of RAM, 256K level-2 cache, 1GB hard disk drive, DDS-2 DAT drive, quadruple-speed CD-ROM drive, 1.4MB Apple SuperDrive floppy disk drive, and mouse
- System 7.5.1 and bundled software
- Power Macintosh Display Adapter

### Workgroup Server 8150/110 (16MB/1GB/CD/DAT) with AppleShare

Order No. M4065LL/A

- Identical to the above configuration, with the addition of AppleShare 4.1 software

### Workgroup Server 8150/110 (16MB/1GB/CD) with AppleShare

Order No. M4007LL/A

- Workgroup Server 8150/110 with 16MB of RAM, 256K level-2 cache, 1GB hard disk drive, 1.4MB Apple SuperDrive floppy disk drive, quadruple-speed CD-ROM drive, System 7.5.1, AppleShare 4.1 software, and bundled software

### Workgroup Server 8150/110 Build-to-Order

Order No. M4043LL/A

- Base chassis includes 8MB RAM, 1.4MB Apple SuperDrive floppy disk drive, quadruple-speed CD-ROM drive, System 7.5.1 software, and Apple RAID Software

### Apple Internet Server Solution for the World Wide Web 8150/110

Order No. M4141LL/A

- Identical to Order No. M4007LL/A (without AppleShare 4.1) but includes Apple Internet Server Solution software

### Workgroup Server 8150/110 Logic Board Upgrade

Order No. M4046LL/A

- Upgrades a Workgroup Server 80 or Workgroup Server 8150 to a Workgroup Server 8150/110
- Includes AppleShare 4.1 Update Kit, System 7.5.1, Apple RAID Software and 8MB of RAM. Additional RAM may be required.

### Macintosh Memory Expansion Kits

A variety of memory expansion kits are available. Check with your Apple reseller for details.

### Apple Token Ring NB/c Card

Order No. M1769Z/A (7-inch)

### Apple Token Ring 4/16 NB/c Card

Order No. M0415LL/B (12-inch)

## Technical Specifications

### Microprocessor

- PowerPC 601 RISC microprocessor running at 110 MHz
- Integrated floating-point unit and 32K on-chip cache
- 256K level-2 cache; 1MB available in Build-to-Order configuration

### Memory

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

### Drives

- Up to two internal 1GB, 2GB, or 4GB Apple hard disk drives
- One DDS-2 DAT drive (4GB uncompressed, 10-14GB compressed); some configurations
- One AppleCD 600i Plus CD-ROM drive (up to 600KB/s streaming data-transfer rate)
- One Apple SuperDrive 1.4MB floppy disk drive that reads, writes, and formats Macintosh, Windows, MS-DOS, and OS/2 disks

### Bundled software

#### Server administration tools

- FileWave—Automated software and data distribution
- Server Manager<sup>3</sup>—Remote AppleShare management tools
- Apple RAID Software—Disk striping and data mirroring
- Retrospect Remote<sup>4</sup>—Automated backup software

#### User productivity tools

- AppleShare Client for Windows—Enables Windows clients to connect to an AppleShare server
  - Now Contact—Contact management software
  - Now Up-to-Date—Group scheduling software
  - Viper Instant-Access—Cross-platform information retrieval system
  - Adobe Acrobat Reader—Viewing application for portable document format (PDF) files
- Note: The only software bundled with the 8150/110 when it is used as part of the Apple Internet Server Solution for the World Wide Web is Apple RAID Software and AppleShare Client for Windows.

### 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

<sup>3</sup> Only included in AppleShare configurations

<sup>4</sup> Only included in DAT drive configurations

For more information about Workgroup Servers, call Apple Business Systems at (408) 862-3385 or send electronic mail to [ABS.NETINFO@applelink.apple.com](mailto:ABS.NETINFO@applelink.apple.com)

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

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- One processor-direct slot
- One Apple Desktop Bus (ADB) port for a keyboard, mouse, and other 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
- Two high-speed asynchronous SCSI DMA buses; one supports up to five external and two internal SCSI devices, the other supports up to two internal hard disks
- 16-bit stereo sound input and output ports

### Networking

- Built-in Ethernet
- Two serial ports for LocalTalk
- Supports TCP/IP networking software with MacTCP

### 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 lb. (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 47° C)
- Relative humidity: 20% to 80% noncondensing
- Maximum altitude: 10,000 ft. (3,048 m)

### Regulatory approval

- FCC Class A

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