Workgroup Server 9650/350

Expansion and storage
- Six PCI (Peripheral Component Interconnect) slots for expansion cards
- Dual internal 4GB Ultra/Wide hard disk drives
- Internal 24x-speed (maximum) CD-ROM drive
- Three SCSI channels: one internal Ultra/Wide SCSI-3 (40 MB/s); one internal Fast SCSI-2 (10 MB/s); one external SCSI-1 (5 MB/s)

Networking
- 10/100/MB/s Ethernet card
- Built-in Ethernet and LocalTalk capabilities
- Support for AppleTalk and TCP/IP networking protocols
- Support for other networking topologies such as Fast Ethernet, ATM, and Token Ring (with PCI card)

Processor and memory
- 350-MHz PowerPC 604e RISC processor with floating-point processor and 64K on-chip cache
- 1MB Apple Inline Cache (level 2)
- 64MB of RAM, supports up to 768MB

Features Built into Every Workgroup Server
Fast, easy setup
- Comes with Mac OS 7.6.1 software installed
- Is extraordinarily easy to configure—features the true plug-and-play capabilities that characterize Apple systems

Bundled software
- Apple RAID software for disk striping (RAID 0) or mirroring (RAID 1)
- Choice of three software bundle solutions, so you get the functionality you want—right out of the box
— Application Server Solution
— AppleShare Server Solution
— Apple Internet Server Solution

Service and support
- Includes hardware troubleshooting and telephone assistance for Apple-branded software for one year (7 days per week, 24 hours per day)
- Provides two-business-day response through its one-year, on-site hardware warranty
- Offers additional service and support options

The Workgroup Server 9650/350 is the most powerful member of the Workgroup Server family from Apple. Based on the PowerPC processor, it delivers the file, print, Internet/intranet, and applications server capabilities that meet the needs of growing workgroups in education, business, and publishing. It's ideal for workgroups that use both Mac OS and Windows, especially those interested in setting up an intranet that's exceptionally easy to use, support, and maintain.

Apple Workgroup Servers are highly reliable systems with large storage capacity that provide organizations with faster, more efficient network services and secure centralized storage. The Workgroup Server 9650/350 not only meets these criteria, but also runs the familiar Mac OS, making all of its capabilities incredibly easy to use.

The Workgroup Server 9650/350 offers outstanding performance through its 350-megahertz PowerPC 604e processor, located on a CPU card with 1MB Apple Inline Cache (level 2), 64MB of RAM (supports up to 768MB); three SCSI channels, including one Ultra/Wide channel (40MB/s); dual 4GB (7200 rpm) Ultra/Wide hard disk drives and; 24x-speed (maximum) CD-ROM drive. It also provides powerful built-in networking capabilities, with 100BASE-TX, 10BASE-T, and AAUI Ethernet connections.

The Workgroup Server 9650/350 features a product design that provides easy access for servicing. And for flexible expansion, it offers six PCI slots that let you add capabilities by installing a wide variety of cards, as well as six internal drive bays (three open) to maximize storage capacity.

The Workgroup Server 9650/350 offers a choice of three software bundle solutions. The *Application Server Solution* provides a variety of useful software for reliability, productivity, and performance. The *AppleShare Server Solution* includes all of the Application Server Solution software, plus AppleShare IP 5.0. This new server software from Apple builds on the AppleShare tradition of ease of use to add integrated support for TCP/IP as well as AppleTalk—so you can incorporate a Workgroup Server into your intranet easily and seamlessly. It even includes several third-party Internet-related tools that allow you to integrate the network services into your environment. The *Apple Internet Server Solution* includes all of the software necessary to create, manage, and publish media-rich World Wide Web content—quickly and easily.

So if you need a high-performance server for a demanding workgroup, we have the solution: the powerful and expandable Workgroup Server 9650/350.

Ordering Information

Workgroup Server 9650/350
Application Server Solution
Order No. M5646LL/A

• Workgroup Server 9650/350 with 64MB of RAM, 1MB Apple Inline Cache (level 2), dual 4GB (7200 rpm) Ultra/Wide hard disk drives, 100BASE-T Ethernet card, internal 24x-speed (maximum) CD-ROM drive, 1.4MB Apple SuperDrive floppy disk drive, keyboard, and mouse
• Apple RAID 1.5
• Workgroup Server Solution CD
• Mac OS 7.6.1

AppleShare Server Solution
Order No. M5644LL/A

• Includes all of the hardware and software that comes with the Application Server, plus;
• AppleShare IP 5.0, AppleShare Client for Windows, COPSTalk, Server Manager, Vicom Gateway with DHCP, LogDoor, Claris Home Page, and Claris Emailer

Apple Internet Server Solution
Order No. M5645LL/A

• Workgroup Server 9650/350 with 64MB of RAM, 1MB Apple Inline Cache (level 2), dual 4GB (7200 rpm) Ultra/Wide hard drives, 100BASE-T Ethernet card, internal 24x-speed (maximum) CD-ROM drive, 1.4MB Apple SuperDrive floppy disk drive, keyboard, and mouse
• Apple RAID 1.5
• Mac OS 7.6.1 and Mac OS 8 on CD
• WebSTAR/SSL, MacDNS, NetCloak, Rumpus, FireSite Speed Booster, Virtual Domain Manager, LogDoor, MacTCP Watcher, PageSentry, Adobe Acrobat Reader, Netscape Navigator, Butler SQL, Tango Enterprise, BBEdit, Claris Home Page, and GoLive CyberStudio

For the most current information about Apple servers, visit our web site at: http://www.servers.apple.com/

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

Technical Specifications

Microprocessor
• 350-MHz PowerPC 604e RISC processor
• Integrated floating-point unit and 64K on-chip cache

Memory
• 64MB of RAM, supports up to 768MB
• 1MB Apple Inline Cache (level 2)

Storage
• Dual internal 4GB (7200 rpm) Ultra/Wide hard disk drives
• 24x-speed (maximum) CD-ROM drive
• 1.4MB Apple SuperDrive floppy disk drive that reads, writes, and formats Mac OS, Windows, MS-DOS, and OS/2 disks

Networking
• Built-in 10/100 MB/s Ethernet with 10BASE-T and AAUI
• Two serial ports for LocalTalk
• Support TCP/IP networking software with Apple Open Transport

Interfaces
• Six PCI expansion slots (three used by Ultra/Wide SCSI card, video card, and Fast Ethernet card)
• One Apple Desktop Bus (ADB) port for a keyboard, mouse, and other devices
• 10/100 MB/s Ethernet using RJ-45
• On-board 10 MB/s Ethernet using either ADUI or RJ-45
• Two DMA serial (RS-232/RS-422) ports compatible with LocalTalk
• Three SCSI channels: one internal Ultra/Wide SCSI-3 (40 MB/s) on PCI card; one internal Fast SCSI-2 (10 MB/s); one external standard SCSI-1 (5 MB/s)
• 16-bit stereo sound input and output ports
• DB-15 graphics port for display support on PCI card

Video support
• 4MB of VRAM on the included PCI video card
• Support of most third-party displays as well as VGA and SVGA monitors

Clock/calendar
• Custom integrated circuit with long-life lithium battery

Disability access
• System software includes CloseView and Easy Access, and provides the ability to substitute visual cue for beep. These built-in solutions and third-party options provide alternative input and output solutions for people with disabilities.

Keyboard and mouse
• ADB keyboard included
• ADB Mouse II included

Electrical requirements
• Line voltage: 100 to 125/200 V AC, RMS single phase
• Frequency: 50 to 60 Hz, single phase
• Power: 390 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)

Environmental requirements
• Operating temperature: 50° to 95° F (10° to 35° C)
• Storage temperature: –40° to 116.6° F (–40° to 47° C)
• Relative humidity: 5% to 95% noncondensing
• Maximum altitude: 0 to 10,000 ft. (0 to 3,048 m)

Size and weight
• Height: 17.3 in. (43.9 cm)
• Width: 9.7 in. (24.6 cm)
• Depth: 17.3 in. (44.0 cm)
• Weight: 35.0 lb. (15.9 kg)—varies based on internal devices installed

Regulatory approval
• FCC Class B

Workgroup Server Solution CD/Bundled software

Reliability software
• Apple RAID Software—data mirroring to protect against data loss from drive failures (RAID 1)
• Retrospect Remote—automated backup software for the server as well as client workstations, including Mac OS, Windows 95, and Windows NT clients
• Virex—automated virus screening software

Performance software
• Apple RAID Software—optimizes performance of multiple hard disks through disk striping (RAID 0)
• Skyline/Satellite—enables monitoring of the network and server traffic

Productivity software
• 4-Sight FAX—lets you send and receive faxes from your desktop
• Now Contact & Up-to-Date—provides contact management tools and handles group scheduling
• Viper Instant-Access—offers a cross-platform information retrieval system

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