



Tech Info Library

Network Server 500 and 700: Product Description (8/96)

Revised: 8/1/96
Security: Everyone

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Article Created: 16 February 1996
Article Reviewed/Updated: 1 August 1996

TOPIC -----

This article describes the Network Server 500 and Network Server 700.

DISCUSSION -----

The Network Server 500 and 700 are Apple's fastest, most powerful, reliable, and expandable server solutions for demanding network file, print, and database users.

The Network Server 500 and 700 high-performance servers are based on the 132-megahertz and 150-megahertz PowerPC 604 RISC processors, respectively, and both run the robust AIX for Apple Network Servers operating system.

Designed from the lockable wheels up as highly available, reliable, and secure servers, both Network Servers offer optional hot-swappable redundant tray-mounted hard drives (requires PCI RAID Disk Array Card and RAID level 5) that slide in and out of the front storage bays in seconds. These bays provide outstanding storage flexibility because they can hold tray-mounted optical drives, tape drives, and hard drives in full- or half-height configurations.

They're easy to network, with built-in Ethernet support and optional support for up to seven Ethernet segments using PCI expansion cards.

The Network Server 700 also offers optional hot-swappable redundant power supplies that slide in and out in a similar manner to the front storage bays.

Network Servers are designed around industry standards. From AIX to PCI to SCSI, they're built to fit into your multiplatform network environment. And each features a built-in quad-speed CD-ROM drive for installing software or serving information to networked desktop computer users.

In addition, they're designed to be easy to reconfigure and service: Each major

component can be replaced in less than 60 seconds -- including the logic board.

Logic boards on both servers can be easily upgraded to 512 megabytes of DRAM main memory, and their PowerPC microprocessors are located on upgradable, replaceable processor cards.

Network Servers are easy to expand, with six PCI expansion slots, and up to 256 gigabytes of total storage capacity.

The Network Server enclosures offer controlled, key lockable access to front-mounted hard disk drives, CD-ROM drives, tape drives, and other media.

The most powerful servers Apple has ever built, the industrial strength Network Servers will meet the needs of the most demanding publishing, education, and technical customers.

Features

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Performance

- 150-MHz PowerPC 604 RISC processor with floating-point unit and 32K on-chip cache on an upgradable, replaceable processor card (700 model)
- 132-MHz PowerPC 604 RISC processor with floating-point unit and 32K on-chip cache on an upgradable, replaceable processor card (500 model)
- Two PCI buses
- Two 20-megabyte-per-second Fast/Wide SCSI channels

Reliability and high availability

- Optional redundant hot-swappable disk drives (requires PCI RAID Disk Array Card and RAID level 5)
- Optional redundant hot-swappable power supplies (700 model)
- Parity memory protection
- Third-party uninterruptable power supply (battery backup)

Expansion and storage

- 32MB or 48MB of main memory, expandable to 512MB
- Six PCI slots for expansion cards
- Up to six internal tray-mount hard disk drives of up to 4GB each, with hot-swap and redundancy option (requires PCI RAID Disk Array Card and RAID level 5), expandable to up to 256GB
- Two internal fixed-mount disk drives (700 model)
- Internal quadruple-speed CD-ROM drive
- Internal DDS-2 digital audiotape (DAT) drive (some configurations)
- SCSI-1 bus supports up to seven devices
- Eight ports support a wide range of peripherals

Networking

- Built-in AAUI Ethernet connector

- Support for AppleTalk and TCP/IP networking protocols
- Two serial ports

Enclosure

- Three key-controlled access levels for tray-mount front drive bays
- Key-controlled access to power supplies
- Key-controlled slide-out module for access to main logic board, processor card, PCI slots and memory sockets
- Key-controlled rear access to two fixed-mount half-height drives (700 model)
- Locking wheels
- Dual hot-swappable fans
- Optional 19-inch rack-mount kit

Compatibility

- Binary compatible with the thousands of AIX applications

Bundled software

- Trial versions of IPT uShare and CanOPI; Helios EtherShare, EtherShare OPI and PCShare; and Legato Networker

Service and support

- Includes 1-year on-site hardware warranty with second-business-day response
- Includes lifetime 24-hour telephone hardware troubleshooting
- Includes 90 days of 24-hour telephone software support
- Offers optional next-business-day on-site service response plan
- Offers optional 7-day, 24-hour telephone support plan and priority queuing

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ORDERING INFORMATION

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IMPORTANT NOTE

With the purchase of any Network Server 500 or Network Server 700, you must purchase the AIX for Apple Network Servers Accessory Kit (M4525Z/A)* to obtain AIX for Apple Network Servers version 4.1.4. AIX is not pre-installed on Network Servers.

Network Server 700/150 (48MB/4.3GB/CD/DAT)

Order No. M3470LL/A

- Network Server 700 with 48MB of parity DRAM, 1MB level 2 cache, 4.3GB Fast/Wide SCSI disk drive, internal quadruple-speed CD-ROM drive, DDS-2 DAT drive, and 1.4MB Apple SuperDrive floppy disk drive
- Limited one-year hardware warranty

Optional Network Server 700 configuration

Network Server 700/150 (32MB/CD/1GB)

Order No. M3471LL/A

- Network Server 700 with 32MB of parity DRAM, 1MB level 2 cache, 1GB SCSI disk drive, internal quadruple-speed CD-ROM drive, and 1.4MB Apple SuperDrive floppy disk drive
- Limited one-year hardware warranty

Network Server 500/132 (32MB/2.1GB/CD/DAT)

Order No. M3468LL/A

- Network Server 500 with 32MB of parity DRAM, 512K level 2 cache, 2.1GB Fast/Wide SCSI disk drive, internal quadruple-speed CD-ROM drive, DDS-2 DAT drive, and 1.4MB Apple SuperDrive floppy disk drive
- Limited one-year hardware warranty

Optional Network Server 500 configuration

Network Server 500/132 (32MB/CD)

Order No. M3469LL/A

- Network Server 500 with 32MB of parity DRAM, 512K level 2 cache, quadruple-speed CD-ROM drive, and 1.4MB Apple SuperDrive floppy disk drive
- Limited one-year hardware warranty

AIX for Apple Network Server Accessory Kit*

Order No. M4525Z/A

- Includes installation CD, Mac OS Utilities for the Network Server with AIX, Diagnostics Diskette, Setting Up the Network Server Manual, Using AIX Manual, AppleTalk Services, Mac OS Utilities, Quick Reference Card, Power Cord, Power Cord Lock, VGA Adapter, ADB Mouse, DAT Tape Cleaner, Try and Buy Third Party Software including IPT: uShare, CanOPI; Helios: EtherShare, EtherShare OPI, PCShare; Legato Systems: Legato Data Backup Utility, Networker Macintosh ClientPak, Networker Eval, APC: Powerchute.

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Peripherals and Accessories
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Accessory Kit

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AIX for Apple Network Servers Accessory Kit

Order No. M4525LL/A

The AIX for Apple Network Servers Accessory Kit includes the following items:

CD-ROM Discs

- AIX for Apple Network Servers version 4.1.4 CD
- PowerChute Plus CD, requires APC Corporation's UPS purchased separately
- Helios EtherShare, OPI, PCShare, demo license to June 1, 1996
- Information Presentation Technologies (IPT) uShare, CanOPI, free 90 day trial with a fax key authorization

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- Legato Data Backup Utility for server only, fully licensed
- Legato Networker for clients, 10 client license for 75 days

Floppy Disks

- Mac OS Utilities for the Network Server with AIX
- Network Server Diagnostic Utility

Other Items *

- Quick Reference Card
- Setting Up the Network Server manual
- Using AIX, AppleTalk Services, and Mac OS Utilities on the Apple Network Server
- flyer for Logitech 3-button mouse options
- support credit card
- mouse
- power cord
- power cord locking mechanism and screws
- cleaning cassette
- VGA Adapter

* Note: No data backup tape is included.

Memory Expansion Kits

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Network Server 16MB Parity Memory Kit (Two 8MB 60ns DIMMs)
Order No. M4017LL/A

Network Server 32MB Parity Memory Kit (Two 16MB 60ns DIMMs)
Order No. M4018LL/A

Network Server 64MB Parity Memory Kit (Two 32MB 60ns DIMMs)
Order No. M4019LL/A

Hard Drives

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Network Server 2.1GB F/W SCSI Hard Drive in Removable Tray
Order No. M4022LL/A

Network Server 4.3GB F/W SCSI Hard Drive in Removable Tray
Order No. M4023LL/A

Network Server 700 2.1GB Fixed Hard Drive with Bracket (rear-mount drive)
Order No. M4818LL/A

Network Server 700 2x4.3GB Fixed Hard Drives with Bracket (rear-mount drives)
Order No. M4819LL/A

Other Drives

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Network Server DAT-2 4 mm Tape Drive (4GB/12GB) in Removable Tray

Order No. M4025LL/A

Network Server AppleCD 600 Quad-Speed Drive in Removable Tray

Order No. M4024LL/A

Expansion

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Network Server PCI RAID Disk Array Card with internal cables (supports RAID levels 0, 1, 0+1, 5, and 7)

Order No. M4030LL/A

Network Server External SCSI Cable for RAID Card, 50 inch (68 pin to 68 pin)

Order No. M4031LL/A

Apple PCI Ethernet Card (10MB/sec Ethernet Card-AAUI, Thin Coax, Twisted Pair)

Order No. M4709LL/A

Apple PCI FastEthernet 100Base-TX Card (100MB/sec FastEthernet Card-Twisted Pair)

Order No. M3906Z/A

Ethernet adapters

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Apple Ethernet Thin Coax Transceiver (cable not included)

Order No. M0329Z/B

Apple Ethernet Twisted Pair Transceiver

Order No. M0437Z/B

Apple Ethernet AUI Adapter

Order No. M0432LL/A

Other Accessories

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Network Server 700 Redundant Power Supply

Order No. M4035LL/A

Network Server 19-inch Rack Mount Kit

Order No. M4036LL/A

Network Server SCSI Drive Adapter Kit (includes one 50-pin adapter for Fast SCSI devices and one 68-pin Fast/Wide SCSI adapter, which allow installation of

third-party drive in empty tray)
Order No. M4028LL/A

Network Server Front Drive Bezel Kit (includes CD-ROM and DAT-2 drive bezels for empty tray)
Order No. M4029LL/A

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

Article Change History:

01 Aug 1996 - Corrected part number for Apple PCI FastEthernet 100Base-TX Card.
29 Jul 1996 - Corrected part number for AIX for Apple NW Server Accessory kit.
11 Jun 1996 - Added list of contents for the accessory kit.

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Tech Info Library Article Number:19362