



# Tech Info Library

## ARA MultiPort Server 2.1: Technical Specifications (1/96)

Revised: 1/26/96  
Security: Everyone

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TOPIC -----

This article provides the technical specifications for Apple Remote Access MultiPort Server 2.1.

DISCUSSION -----

### Technical Specifications

#### Administrator control and monitoring

- Ability to monitor and manage server activity by port and user
- Ability to broadcast messages or send them to selected users
- Ability to adjust connection time by user
- Ability to disconnect any single user or all users
- Built-in Simple Network Management Protocol (SNMP), enabling you to monitor the server from any SNMP-based network management station

#### Security

- User name and password authentication
- Adjustable password length
- Filtering of network services by account
- Ability to disallow client use of Save Password option
- Account disable after specified number of password failures
- Password aging
- External security architecture (for example, for providing challenge-and-response authentication through a third-party security module)
- Call back feature that verifies the user's identity by returning calls to a predetermined phone number
- Activity log for recording user and server activities
- Administrative password option

#### Modem support and scripts

- Supports any Hayes-compatible 9,600-bps or higher speed modem with the appropriate script. Modem scripts for many popular modems are included:
  - V.fast modems: Motorola Codex 3260 Fast
  - V.32bis modems (14,400 bps): Hayes Ultra 144, Motorola Codex 3260, US Robotics Courier V.32bis
  - V.32 modems (9,600 bps): Hayes Ultra 96, Telebit T1600, UDS/Motorola 3225, UDS/Motorola 3227, US Robotics Sportster, US Robotics Worldport
  - V.34 modems (28,800 bps): US Robotics, V.Everything, SupraFax 28.8
- ISDN support: Hayes ISDN adapter
- 9,600-bps or higher-speed scripts included with the Apple Remote Access Client for Macintosh can also be used with the Apple Remote Access MultiPort Server
- Additional scripts may be available. Contact an authorized Apple reseller or representative or your modem manufacturer for more details.
- Administrators or other programmers familiar with connection control languages (CCLs) can also write the necessary scripts using the Apple Remote Access Modem Scripting Guide and Modem Workshop software, which are included with the Apple Remote Access MultiPort Server.

#### Network types supported

- Support for any AppleTalk network; the most common network choices include:
  - LocalTalk
  - Ethernet
  - Token Ring

#### Connection types supported

- Support for a range of connection types:
  - Standard telephone
  - Cellular\*
  - ISDN\*

#### Error detection/data compression

- Includes several built-in components that allow for error-free and optimized delivery of data
  - Smart buffering (developed by Apple Computer, Inc.) for data-transfer optimization
  - MNP, an industry standard for error detection
  - V.42bis, an industry standard for data compression

#### Specifications

- Maximum number of simultaneous connections: 16
- User name maximum length: 31 characters
- Password maximum length: 8 characters
- Total number of user records: 8,192
- Maximum connect time: selectable
- Maximum number of activity log entries: 32,767

#### Licensing information

- Comes with license to install Apple Remote Access MultiPort software on a single Macintosh and to install Apple Remote Access Client for Macintosh software on up to four systems
- Additional client software must be purchased or licensed separately;

consult your authorized Apple reseller or representative for information.

#### Operating requirements

##### For the server

- A Macintosh computer with one or more NuBus slots and at least 5MB of RAM, a Power Macintosh computer, or a Workgroup Server. For configurations with more than four ports, additional memory is required, and a high-performance system is recommended.
- Macintosh system software version 7.0 or later (version 7.1 or later recommended)
- A hard disk drive and an Apple SuperDrive floppy disk drive
- Apple Remote Access Serial Card
- One or more Hayes-compatible 9,600 bps/V.32 or higher-speed modems
- Apple Remote Access Client for Macintosh

##### For the client

- A Macintosh Plus or later model with at least 4MB of RAM or a Power Macintosh computer
- Macintosh system software version 7.0 or later
- A hard disk drive
- An Apple or other Hayes-compatible modem (2,400 bps minimum; 9,600 bps or higher recommended) and appropriate modem cable, if needed

\* ISDN or cellular support requires additional third-party products.

#### Ordering Information

##### Apple Remote Access MultiPort Server

Order No. M5214Z/C

- Apple Remote Access MultiPort Server software and installer (includes support for four ports)
- Apple Remote Access Client for Macintosh software and installer (with license to install software on up to four client systems); additional client software can be purchased separately
- Apple Remote Access Serial Card

##### Apple Remote Access Client for Macintosh (single-pack)

Order No. M5227Z/B

##### Apple Remote Access Client for Macintosh (10-Pack)

Order No. M2692Z/B

##### Apple Remote Access Client for Macintosh (Volume Licensing)

Client software can be volume licensed separately for quantities of 50 or more users; consult your authorized Apple reseller or representative for purchasing information.

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

#### Article Change History:

26 Jan 1996 - Change distribution.

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