

Apple Modem Command Summary

| Command | Definition |
|---------|------------|
|---------|------------|

Default Commands

| | |
|---------------------------------|---|
| Initial Start (Default Mode) | The modem is in the Command/Answer mode when it turns on. This means that it will respond to your commands from the keyboard; will answer a telephone call on the first ring; and will receive and display any message it receives from a remote system on your monitor screen. |
| E1 | The modem will display command characters on the monitor screen. |
| F1 | The modem is in full-duplex mode when it turns on. This means that it can send and receive messages at the same time. |
| M1 | The modem speaker is turned on while a telephone call is being dialed and before the call is answered, but turns off when the call is answered. |
| P | The modem uses the pulse dialing method to dial a telephone number. |
| Q0 | Respond strings are sent from the modem. |
| S0=1 | The modem will answer a telephone call on the first ring. |
| S2=43 | The modem will respond to ASCII character 43 (the plus sign) escape character. |
| S7=30 | The modem will wait 30 seconds for a carrier when it tries to place a telephone call. |
| V1 | The modem displays a response string, such as OK on the monitor. |
| X0 | The modem sets a standard respond code. |

General Commands

| | |
|---|--|
| E | Monitor Echo Command. This command can repeat the characters you type on the keyboard onto your monitor screen, provided the modem is in Command Mode and not connected to a telephone line. E0 turns off the command echo. E1 turns on the command echo. |
|---|--|

Command**Definition**

F

Transmission Mode Command. Selects between full-duplex and half-duplex transmission modes. It operates only in a *data mode*. In half-duplex, it automatically echoes characters you type on your keyboard onto your monitor screen, so you can see them. In full-duplex, it does not echo characters to your monitor screen—the remote computer echoes those characters, so you can see whether it has received characters correctly.

F0 sets the transmission mode to half-duplex.

F1 sets the transmission mode to full-duplex.

If your monitor screen displays two identical characters for every character you type, then your computer may be in half-duplex mode and the host computer may be in full-duplex mode. The characters you type are being transferred once to your monitor screen by your terminal communications program, and a second time by the host computer. You should change the terminal program to full-duplex.

M

Monitor Speaker Command. Controls the monitor speaker.

M0 turns the monitor speaker off.

M1 turns the monitor speaker on in Command Mode, and turns the speaker off when the modem switches to a Data Mode. The speaker turns off when the modem recognizes a return carrier tone from another modem. This is the default command.

M2 turns the monitor speaker on and leaves it on in both Command and Data Modes.

P

Pulse Dial Command. Instructs the modem to use pulse dialing method to dial the numbers that follow in a telephone number.

Q

Quiet Command. Either displays modem response messages on your monitor screen, or suppresses them.

Q0 sends modem response messages to your monitor screen.

Q1 stops modem response messages from appearing on your monitor screen.

S0=n

Answer Register. Sets the number of times a telephone must ring before your modem will answer a call. This register recognizes a number between 0 and 255. Setting this register equal to 0 tells the modem not to answer any telephone calls.

S0=1 Tells the modem to place the value 1 in the register **S0**. This register determines how many times a telephone can ring before the modem will answer the call. The value 1 commands the modem to answer any calls it receives on the first ring. The command string looks like this:

ATS0=1 (RETURN)

Attention! When using the auto answer feature:

Whenever you switch the modem power ON, the S0 (auto-answer) register defaults to 1, telling the modem to intercept all incoming calls on the first ring. If you do not want the modem to answer the phone at all, leave the power OFF, or remember to set the S0 parameter to zero each time you turn the modem on.

S2=n

Escape Character Register. Lets you choose any ASCII character to represent the escape sequence character.

When the modem detects a one-second data silence, followed by a string of three escape sequence characters, followed by another one-second data silence, it disconnects from the telephone line and changes mode to local Command Mode.

To send a new escape code character to the modem, select the new character, type the register number, type an equals (=) sign, and then type the hexadecimal ASCII equivalent to the character you selected. See Appendix B for the ASCII character set. The default character is a plus sign (+). The register recognizes any ASCII number between 0 and 255.

Example: A plus character (+) equals ASCII 43. If you want to change the character to an asterisk (*); then look up the ASCII-equivalent number for the asterisk in Appendix B—the asterisk equals ASCII 42. Then type S2=42, which will then allow you to use three asterisks (***) to escape from a Data Mode.

S7=n

Telephone Carrier Register. Controls the length of time (in seconds) that the modem will wait for a carrier (telephone connection) before hanging up. The modem will wait for the number of seconds equated to the value S7=. The default value for this register is 30. This register recognizes any value from 0 to 255.

T

Touch-ToneSM Dial Command. Instructs the modem to use the Touch-ToneSM dialing method to dial the numbers that follow.

V

Response Code Command. The message your modem displays on your monitor screen to prompt you to type commands or data, report whether the telephone line is connected or disconnected, or report an error. Each response has a number, and a string attached to the code.

V0 displays the response number.

V1 displays the response string.

Command**Definition***Dial Commands*

D

The Dial Command. Signals the modem that the numbers, letters and commas following it are all part of a telephone number that it will dial. The modem dials a telephone number and enters the originate Data Mode.

The Pause Command. Causes the modem to pause for two seconds before continuing to process the command characters that come after it. This command is useful whenever you need to dial 9 to get an outside phone number.

Other non-numeric characters (letters and punctuation other than those reserved as command characters) may be imbedded in the Dial Command, but will have no effect. Example: MCI:555-0029,83741/INFO#(408)555-1212.

Special Commands

A

Answer Mode Command. The modem enters the Answer Mode without receiving a telephone call (a ringing signal) first. This is similar to picking up the telephone and listening to the dial tone. This command forces the modem to answer the telephone without waiting for any rings.

L

Self-test Command. Tests the modem to determine if all connections and modem functions are operating properly. The modem receives text from the keyboard and sends it back to the monitor screen—use the special escape code sequence (+++) to exit the test.

Note: The following two commands stand alone and do not use AT in front of them.

A/

Repeat Last Command. Instructs the modem to repeat the last command line. Pressing **RETURN** is not required. The command can redial the last number dialed.

+++

The Escape Character Sequence. Changes the modem from any Data Mode: Dial, Answer, or Self-test, and returns it to the Command Mode—this will hang up the telephone and disconnect the modem from the telephone line. Follow this brief sequence to escape from a Data Mode, and return to the Command Mode:

Command**Definition**

Your modem should be in one of three Data Modes: Dial, Answer, or Self-test.

1. Pause one second.
2. Type the escape character sequence (+++).
3. Allow one more seconds to pass without sending or receiving data through the modem.
4. The modem will respond with a `NO CARRIER` message. Your modem is now in the Command Mode and can process a new command.
5. To change the escape sequence character from a plus sign [+], select a new character and place its corresponding ASCII number equal to register `S2` (Refer to Appendix B for ASCII values).

*Response Codes***Numbers Display****String Display**

| | |
|---|--------------|
| 0 | OK |
| 1 | CONNECT |
| 2 | RING |
| 3 | NO CARRIER |
| 4 | ERROR |
| 5 | CONNECT 1200 |

X

Regular or Extended Response Code List. Selects to display, on your monitor screen, either Response code messages 0 through 4, or messages 0 through 5. This command does not operate on the Apple 300 Modem.

X0 the modem displays only Response Codes 0 through 4. This is the default setting.

X1 the modem displays all Response Codes. At present, programs will only recognize `CONNECT`.

Z

Reset. Causes the system to reset. The modem immediately goes to default values. The modem remains in Command Mode. Refer to the default value table at the beginning of this reference card for specific default conditions. Do not place any modem command characters after the letter Z in a command line.

Command**Definition***Command String Examples*

ATL (RETURN) Self-Test Command. Starts the modem self-test procedure which checks that the modem is properly connected, turned on, and functional.

ATS0=2 (RETURN) Sets the S0 register to answer a telephone call on the second ring.

ATD408-555-1212 (RETURN) Issues the dial command, and dials a telephone number. The modem ignores the two hyphens typed in the telephone number.

ATQ1E1D408-555-1212 (RETURN) Tells the modem to display all modem Response Codes and display all modem command characters on your monitor screen (Default settings—refer to the Default Command listing at the beginning of this card), and then dials a telephone number.

ATS7=30S0=1V1M2D9,,T408-555-1212 (RETURN) Tells the carrier register S7 to wait 30 seconds for a carrier before hanging up. Then it tells the modem to answer the telephone on the first ring, display Response Code messages on your monitor screen, and leave the monitor speaker turned on during data transmission.

Note that Register Commands and General Commands may be mixed in any order between the AT characters and the □ character that follows.

The command dials a telephone number as follows:

The letter □ always marks the start of a telephone number. The modem uses pulse dialing to dial 9—the number often used by private telephone exchange systems like PBX or PCX to access the public telephone system (get the outside dial tone).

Note: Two consecutive commas in a command string cause the modem to wait four seconds for an outside carrier.

The modem switches to Touch-ToneSM dialing for the next ten digits.

Apple Modem



Packing List for Apple III

The Accessory Kit and the Modem Carton should contain the following items:

| Item | Quantity | Part Number | Description |
|----------------------|----------|----------------------------|---|
| Accessory Kit | | | |
| 1 | 1 | 030-0610 | Apple Modem 300/1200 User's Manual, Part I: Reference |
| 2 | 1 | 030-0809 | Apple Modem 300/1200 User's Manual, Part II: Guide to Apple III |
| 3 | 1 | 030-0183 | Warranty Registration Card |
| 4 | 1 | 030-0826 | Modem Evaluation Report |
| 5 | 1 | 590-0121 | Modem Data Cable |
| 6 | 1 | 658-5131 | Apple Term III Program Diskette |
| Modem Carton | | | |
| 1 | 1 | 699-0209 or 699-0208 | Apple Modem 300 or Apple Modem 1200 |
| 2 | 1 | 970-0652 | RJ-11 Telephone Cable |
| 3 | 1 | 970-0651 | Power Module |

In case of questions, contact the dealer from whom you purchased this product.

LIMITED WARRANTY

APPLE COMPUTER, INC. ("Apple") warrants this hardware product against defects in material and workmanship for a period of NINETY (90) DAYS from the date of original retail purchase.

If you discover a defect, Apple will, at its option, repair, replace or refund the purchase price of this product at no charge to you, provided you return it during the warranty period, transportation charges prepaid, to the authorized Apple Dealer from whom you purchased it or to any other authorized Apple Dealer within the country of original retail purchase. (You can obtain additional information from Apple directly at the address printed on this certificate). Please attach your name, address, telephone number, a description of the problem and a copy of a bill of sale bearing the appropriate Apple serial numbers as proof of date of original retail purchase, to each product returned for warranty service.

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ALL IMPLIED WARRANTIES, INCLUDING IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE, ARE LIMITED IN DURATION TO NINETY (90) DAYS FROM THE DATE OF ORIGINAL RETAIL PURCHASE OF THIS PRODUCT.

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Apple Modem Evaluation Report



Please take a few minutes to complete this form as soon as you have connected your Apple Modem to your computer and used it a few times. Your responses will help us identify problem areas and make our products work better for you.

1. Apple Modem

Serial No. _____

2. What type of modem do you have?

☐ Modem 300 ☐ Modem 1200

3. Which system is your modem attached to?

4. How do you use your modem?

☐ Business ☐ Education
☐ Home ☐ Scientific/Industrial
☐ Other: _____

5. What is the specific application?

☐ Electronic Mail
☐ Information Services (i.e. CompuServe®, THE SOURCE, etc.)
☐ Transfer Programs/Files
☐ Transfer Financial Models
☐ Other: _____

6. Does the quality of the modem meet your expectation?

☐ Yes ☐ No (Please explain)

7. Did you receive everything on the Packing List?

☐ Yes ☐ No (Please specify)

8. Did you have any problems installing and interfacing the modem to your computer?

☐ Yes ☐ No (Please explain)

9. Are the modem manuals clear, complete, and easy to understand?

☐ Yes ☐ No (Please explain)

10. How useful are the manuals as ready-reference?

11. Are the illustrations appropriate and informative?

☐ Yes ☐ No (Please explain)

12. Is your terminal communications program sufficient for your needs?

☐ Yes ☐ No (Please explain)

13. What terminal communications program are you using?

14. Have you had any problems with your Modem?

15. How can we improve the Apple Modem?

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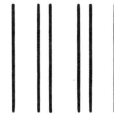
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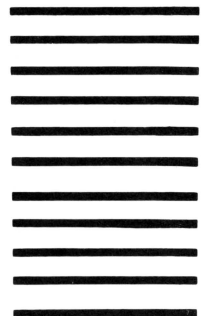
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