

ADAMLink III+ Documentation

ADAMLink III+ is a terminal program that supports the use of the internal ADAMLink modem or external HAYES compatible serial modems at baud rates up to 2400 baud, the SMARTWriter or parallel dot maxtrix printer, and video or 80 column serial terminal output in terminal mode or output to both devices at one time.

ADAMLink III+ supports file transfers using capture for text files and XModem for binary or text files.

ADAMLink III+ can be split into four functional parts:

1. Dialing

1. Enter Number to Dial
2. Hang Up
3. Answer
4. Re-dial

2. Terminal Mode Commands

3. Parameter Setup

1. Printer
 1. SmartWriter
 2. Parallel Printer
2. Terminal
 1. Graphics
 2. 80 Column serial terminal
 3. Combined output
3. Modem
 1. ADAMLink Modem
 2. Serial Modem
4. Saving or recalling of parameter setup

4. File transfer

1. Text Capture
2. XModem

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1. Dialing:

1.1 Enter Number to Dial:

- a) Select ENTER NUMBER menu choice.
- b) Enter phone number with 'p' or 'P' causing a delay in the dialing of the number.
- c) Press DIAL to dial the number. If using an external modem, the dialing method, pulse or tone, can be selected from the modem set up menus.
- d) The modem will now dial the specified number and wait for the carrier from the other system. If an external modem is being used, it will automatically step down the baud rate if necessary to match the system that was called. The baud rate will remain at this rate until changed by the user.
- e) If a carrier is detected, ADAMLink will go into terminal mode or if no answer will optionally re-dial if the auto has been selected.

1.2. Hang Up:

This choice will hang up the modem and disconnect the modem from use of the phone line. This should not be necessary in most cases because systems will generally automatically disconnect when the user logs out. In fact, it is generally frowned upon by most sysops for a user to arbitrarily hang up with exiting by the normal procedure.

1.3. Answer:

This choice will have the modem attempt to answer and connect another computer.

1.4. Re-dial:

The last number dial will be re-dialed. If no answer occurs and automatic re-dial is turned on, the number will be re-dialed until an answer occurs or dialing is canceled.

2. Terminal Mode Commands:

Certain keys have special functions assigned to them.

- a) <HOME> will erase the graphics display of any text. It will not affect a serial terminal.
- b) <WILD CARD> switches between TERMINAL and COMMAND mode of operation.
- c) <UNDO> will stop printing.
- d) <PRINT> will print a selected portion of the graphics display. The <UP> and <DOWN> arrows can be used to select which portion of the screen to print. This key can have unpredictable results if used with only a serial terminal output. The printer is the one selected in setup.
- e) <SHIFT> + <PRINT> will start or stop the printing of characters continuously as they are received.
- f) <CLEAR> will erase all characters received but not displayed. This will be of only limited usefulness.
- g) <INSERT> will pause or restart characters being received from the host.

3. Parameter Setup:

The SELECT OPTIONS choice selects the setup menu options. The setup displays are in general grouped with options that may be changed displayed in the order they occur in the menus with the choices in a particular menu grouped together on the screen. The MORE menu choice will switch between the different menus.

3.1. Printer:

3.1.1 SmartWriter:

All printer output will be directed to the Adam SmartWriter daisy wheel printer.

3.1.2 Parallel Printer:

All printer output will be directed to a parallel printer provided an Orphanware or compatible parallel interface is present.

3.2. Terminal:

Terminal output can be directed to graphics, a serial terminal, or to both.

3.2.1. Graphics:

The output while in terminal mode output via video display processor in Adam. The connect time is displayed in the lower right with other messages being displayed on the bottom line.

Various other options such as auto line feed or character filter can be turned on or off.

3.2.2. 80 Column Serial Terminal:

The output while in terminal mode will be directed to an external serial terminal such as an Orphanware 80-CVU or similar.

All options such as baud rate, stop bits, or port address can be selected. Many of the same options for graphics are available.

The connect time will not be displayed on the bottom or any of the other message.

3.2.3. Both:

This mode directs output to both graphics and serial terminals simultaneously. This mode is best when separate displays are available for the serial terminal and graphics.

3.3. Modem:

ADAMLink modem or external RS-232 HAYES compatible modems connected with an Orphanware RS-232 or compatible interface.

3.3.1. ADAMLink Modem:

All modem input and output will be via the 300 baud ADAMLink modem. Parameters such as character length, stop bits, or auto redial can be selected.

3.3.2. Serial Modem:

All modem input and output will be via an Orphanware RS-232 or compatible interface connected to a serial modem. Parameters such as baud rate, port address, and dialing method can be selected as

well as the same options available for the ADAMLink modem. Modems of up to 2400 baud will work with ADAMLink III+. With an external modem, it is possible go into terminal mode at any time and send commands directly to the modem.

3.4. Saving or recalling of parameter setup:

The setup can be reset to a default setup of using the ADAMLink modem and video terminal mode. Any changes to the setup can be saved to disk or data pack and then recalled. The setup will automatically be recalled if it is found on the disk or data pack that contains ADAMLink III+.

4. File Transfer:

File transfer is initiated from the FILE menu choice. Text Capture or XModem file transfer options are available.

4.1. Text Capture:

Text capture can be used to transmit files or receive text from the host system in terminal mode. Capture is best used on systems that do not support XModem, to capture message or online conferences.

4.2. XModem Transfer:

XModem should be used when uploading or downloading binary files or text files where the accuracy of the transfer is critical. The more accurate cyclic redundancy checking is used if available on the host with checksum as the backup method. The process of using Xmodem is as follows. Initiate the Xmodem transfer on the host system. This varies from system to system so please check with the sysop to get the exact details. The source system will respond with a message to the effect that Xmodem has been started. At this point, return to command mode and select the file transfer menu. Select Xmodem send if uploading or Xmodem receive if downloading a file. The drive to transfer the file to/from will next be requested followed by the file name. The file type is next requested with 'H' being appropriate for SmartWriter files or binary files while 'A' is for general text files or SmartBasic files. The xmodem transfer will now start. The transfer can be halted by pressing the cancel menu choice at any point. During a file transfer, it may take up to 5 seconds to respond to the cancel key at 300 baud. This will transmit five control-X's to signify cancellation of the download. This is commonly accepted by most

programs for cancellation of a transfer. The number of sectors sent or received are displayed as the transfer proceeds. If all goes well, "File successfully DL'ed" or "File successfully UL'ed" will be displayed to indicate a successful transfer. If an error occurs, the partial file is saved and the transfer is aborted. A downloaded file may contain at the end control-Z's to fill up the last record. This is a standard part of Xmodem and will cause few problems. These characters appear as quarter notes in SmartWriter and can be deleted with no problems.