THE MSDOS SERIAL DOWNLOADER:

The MSDOS serial downloader is a software program that allows the user to serially download an assembled program (Intel Standard HEX format) to the on-chip program FLASH memory via the serial COM1 port on a standard PC.

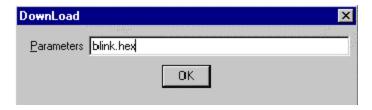
Once the part is configured for serial download mode (pulling PSEN low during Reset), a program can be easily downloaded by using the 'copy' command from a DOS shell or alternatively you can use a preconfigured icon provided as part of the developent tools

1. Verify the following link connections on your ADuC824 QuickStart development board:

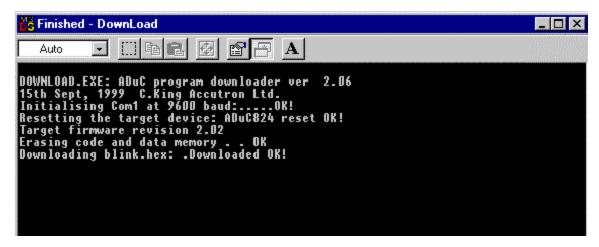
LK3-inserted

For details on link connection options, refer to the eval board user's guide at C:\ADuC\Documentation\824\EvalDocs\824Eval B.pdf.

- 2. Power up your eval board using the power supply provided or a 9V battery (not both).
- 3. Connect the eval board to your PC's COM1 serial port using the provided RS-232 cable.
- 4. Press the RESET button on your eval board.
- 5. On your PC, in the ADuC_Beta824\Download directory, double-click the *DownLoad* icon (DownLoad).
- 6. In the window that comes up, type the relative path of the hex file you wish to download.



The downloader will display the below information, indicating that the serial download was successful.



7. Remove LK3 from your board and press RESET. The code will begin executing (as indicated by a blinking LED with the example code blink.hex).

8. To perform additional downloads, re-insert LK3 and repeat steps 4 thru 7 above.

ADDITIONAL DOWNLOADER OPTIONS:

To make use of the additional downloader options, type any of the following switches immediately following the file name (making sure to precede each with a *space*):

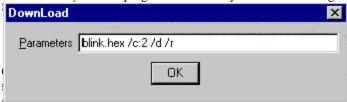
/C:n - select the COM port (default is 1)

/D - download to Flash/EE program memory without erasing Flash/EE data memory

/R - run the program from the beginning i.e. 0000hex

/R:xxxx - run the program from the specified hex start address

For example, the below text selects a download via *COM2* to an ADuC824 without erasing Flash/EE data memory and sets the downloader to *automatically run* the program immediately after downloading.



note: The serial downloader can also be launched directly from a DOS prompt. For example:

