

Adrienne Electronics Corporation

“BOARD FIRMWARE UPDATE INTRODUCTION”

For All AEC-IUSB Boards

Introduction:

If it becomes necessary to update the firmware on your AEC-IUSB board for any reason, please proceed as indicated here. Every board being updated will require its very own update data file (obtained from AEC). This is an in-circuit update, so there is no need to remove the board from the PC. At present the in-circuit update software works only on Windows PC's.

Firmware Update Procedure:

- 1) If not done already, connect the AEC-IUSB board to a known good Windows Vista or newer PC, using the precautions, procedures, and drivers documented elsewhere on this CDROM.
- 2) *****IMPORTANT***** - Close all applications. Make sure that no other software is running which might attempt to access the AEC-IUSB board. In particular, make sure that the Adrienne Electronics “AecClock” Windows clock setting service (program) is not running in the background. See instructions within the “PC Clock Setting” folder for details.
- 3) Obtain and send to <support@adrielec.com> the 16-character “Board ID Code” which is unique to each board. This board ID code has the general format “0123.4567.89AB.CDEF” (16x hex digits). This code can only be obtained by running the “AecUsbUpdate.exe” update program.
- 4) We will send you an update data file having a name something like “UPDTxxxx.AEC”, where the “xxxx” field matches the first 4 digits of the current Board ID Code. This helps you associate update files with boards.
- 5) Run the “AecUsbUpdate.exe” update program and follow the instructions there. The actual board reprogramming process takes less than 1 minute.
- 6) Delete the “UPDTxxxx.AEC” file (it can be used only once for one board).

CAUTION

- 1) Do not turn off power to the PC, or allow the PC to reset itself, or disconnect the AEC-IUSB device, while the AEC-IUSB board update procedure is active. Doing so will not physically damage the board, but the board will have to be returned to the factory for reprogramming from scratch.
- 2) Do not attempt to use the update data file more than once. Each file is designed for one-time use on a single board. After a board has been updated, its Board ID Code will change to something completely different, and thus the update file will no longer work for that board (or any other).