

## **AT2LP RDK Board Not Responding Properly During First-time (Out-of-box) Use**

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If you are reading this article, you have most likely encountered a common issue that most folks see when setting up the board for the first time. The default settings in the AT2LP RDK board often make it appear that the chip is broken because it requires a certain setup for it to behave as expected. There is no need to use this default setup just to get the board up and running because the AT2LP has a built-in feature which allow it to be placed into manufacturing mode at startup. This mode will allow you to configure the AT2LP, using the Blaster software, to fit your design. The first step in getting things set up as you expect is to get into manufacturing mode to program the EEPROM. Cypress has observed that there is an issue when Manufacturing Mode is used for the first time with most Windows systems that makes getting the mfg drivers loaded properly less than obvious. The following steps apply to the AT2LP RDK board on Windows 2000 or XP:

- 1) Disconnect from power and USB
- 2) Disconnect any drives/devices that are attached to the AT2LP board
- 3) Place a shunt across pin 1 and pin 3 of the 40-pin ATA connector on the AT2LP board (this pulls ARESET# to GND)
- 4) Open Device Manager on PC
- 5) Connect power and USB
  - 6a) If a USB Composite Device appears in the device manager, do a manual driver upgrade and match it to the CyUSB driver that comes in the AT2LP kit files (ignore the HID or MSC device and any requests to match to drivers)\*
  - 6b) If no USB Composite Device appears, match the CyUSB driver to the mass storage device; note that you will need to switch back to the mass storage class driver once you are finished with manufacturing mode
- 7) Once "Cypress AT2LP Manufacturing Driver" appears in the Device Manager, you can use AT2LP Blaster to read/write the EEPROM
- 8) The recommended EEPROM configuration for a basic HDD or CD/DVD setup is the CY4615B.iic file that is included in the AT2LP RDK files; this configuration is also a good starting point for most designs

Please refer to the AT2LP Datasheet and the Blaster user's guide for more information on configuring the AT2LP and programming the EEPROM.

\*If you get an error when loading the CyUSB driver, refer to the following KB article: [AT2LP Manufacturing Driver Cannot Install \(Error: Name Already In Use\)](#)