

Lava Dual Parallel Board Installation Manual



Parallel Configuration

Standard LPT Assignments

The Lava Dual Parallel supports both "standard" and "non-standard" LPT settings. Standard addresses are 03BC h, 0378 h, & 0278 h. These will be checked by the system at boot-time and will be assigned incrementally to be LPT 1, LPT 2, or LPT 3.

If you already have an LPT 1 in your PC that uses the 0378 h address (normal default), configure the Lava Dual Parallel for address 03BC h and 0278h. The port assigned to 03BC h will then be recognized as LPT 1, your legacy port will be moved to LPT 2, and the second port on the Lava Dual Parallel will be recognized as LPT 3.

Note: A port assigned to the 03BC h address (always recognized as LPT 1) normally uses a polled interrupt, ie no IRQ jumper is required for this port. 0378 h typically uses IRQ 7, and 0278 h typically uses IRQ 5.

If your parallel peripheral requires an IRQ (dot matrix printers generally do not), and you wish to connect it to LPT 1 (03BC h), configure this port using an unused IRQ in your PC. Do not attempt to share IRQ's with some other device.

Non-Standard LPT Assignments For Windows 95

Note: The following procedure must be repeated for each of the two ports on the Lava Dual Parallel.

When adding an extra Printer Port, double-click on the ADD NEW HARDWARE icon in The Windows 95 Control Panel. We recommend against using the autodetect feature. Rather, answer "NO" to the first question ("Do you want Windows to search for your new hardware?"). Choose "PORTS (COM & LPT)." Select "PRINTER PORT" as the type of port you wish to add and complete the installation procedure. When Windows asks you to restart the computer, choose "NO."

Start the Windows 95 Device Manager (found by double-clicking on the SYSTEM icon in CONTROL PANEL). Choose "PORTS (COM & LPT)," then double-click on whichever LPT you just added (numbered 1 through 6). Choose the RESOURCES page for that port. If Windows 95 failed to configure the port for the address that matches your jumper settings, you may alter it by choosing the appropriate BASIC CONFIGURATION. This may only be accessed by un-checking the box next to "USE AUTOMATIC SETTINGS."

Choose BASIC CONFIGURATION as follows:

- 0 Allows for STANDARD ADDRESSES & polled interrupts (Microsoft default - no IRQ jumper required on Lava Dual Parallel)
- 1 Allows for STANDARD ADDRESSES & interrupt-driven printing (faster)
- 2 Allows for non-STANDARD ADDRESSES & polled interrupts

The beginning and ending hexadecimal address must be configured as follows:

03BC - 03BF	0238 - 023F
0378 - 037F	02B8 - 02BF
0278 - 027F	0338 - 033F

Note: if you choose to enter the above data, without scrolling through the list, the spaces that appear on either side of the hyphen are critical.

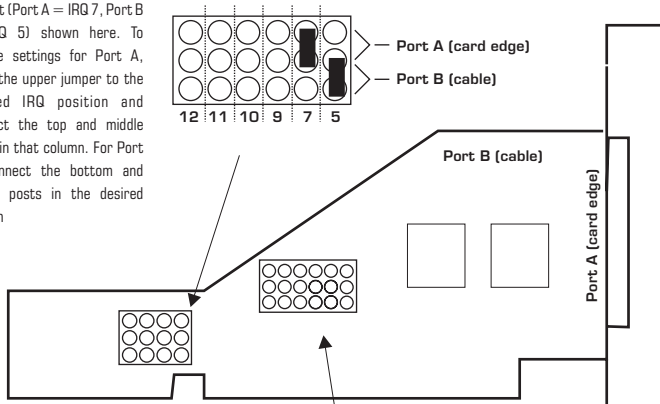
When you have verified that your jumper configuration matches the display in Device Manager, you must restart Windows for the new installation to take effect.

Hardware Set-Up

Parallel Port IRQ Setup

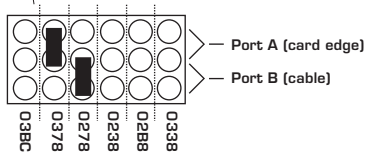
Remove jumper if using
POLLED interrupt request

Default (Port A = IRQ 7, Port B = IRQ 5) shown here. To change settings for Port A, move the upper jumper to the desired IRQ position and connect the top and middle posts in that column. For Port B, connect the bottom and middle posts in the desired column



Parallel Port Addressing

Default configuration (Port A = 0378, Port B = 0278) shown here. To change settings for Port A, move the upper jumper to the desired address position and connect the top and middle pins in that column. For Port B, connect the bottom and middle pins in the desired column



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