

Lava Parallel ECP/EPP Installation Manual



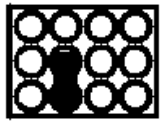
Hardware Set-Up

Parallel Port IRQ Setup

Remove jumper if using POLLED interrupt request



Specifies IRQ 7



Specifies IRQ 10



Specifies IRQ 11



Specifies IRQ 12



Specifies IRQ 4



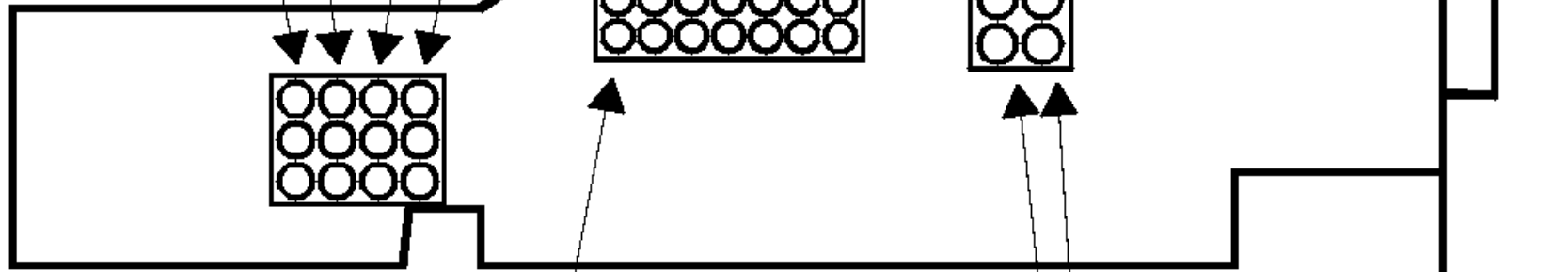
Specifies IRQ 5



Specifies IRQ 2



Specifies IRQ 3



Parallel Port Addressing



Specifies 03BC (hex) Port Address



Specifies 0378 (hex) Port Address



Specifies 0278 (hex) Port Address



Specifies 0238 (hex) Port Address



Specifies 02B8 (hex) Port Address



Specifies 0338 (hex) Port Address

DMA Configuration

DMA Request



1 3 None

DMA Acknowledge



1 3 None

Note: When using Enhanced Capabilities Port (ECP) mode, DMA channels must be set up according to mode specified by peripheral device driver. Check the documentation accompanying your peripheral to see what mode(s) it supports. *Both jumpers should be moved together!*

Note: When using 03BC (hex) address, 03BC ENABLE/DISABLE jumper must be ENABLED. When using all other addresses, 03BC ENABLE/DISABLE jumper must be DISABLED.

You may now restart Windows.

Parallel Configuration

Standard LPT Assignments

The Lava Parallel ECP/EPP fully supports "standard" LPT settings represented by addresses 03BC h, 0378 h, & 0278 h. The system will check those hexadecimal address at boot-time and assign them incrementally to be LPT 1, LPT 2, or LPT 3.

If You already have a LPT 1 on your system, using 0378 h, then configure the Lava Parallel ECP/EPP for address 0278 h. It will be recognized as LPT 2.

If You already have a LPT 1 and a LPT 2, using 0378 h and 0278 h, respectively, configure the Lava Parallel ECP/EPP for address 03BC h. It will be recognized as LPT 1 and the other ports will be recognized as LPT 2 and LPT 3, respectively.

Note: 03BC h uses a polled interrupt, ie no IRQ jumper is required. 0378 h typically uses IRQ 7, and 0278 h typically uses IRQ 5.

Non-Standard LPT Assignments For Windows 95

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 the type of port you wish to add (either "PRINTER PORT," or "ECP PRINTER PORT"). Complete the installation procedure. When Windows asks that you 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 automatically detect the required Port address, 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:

STANDARD PRINTER PORT (SPP)

- 0 Allows for STANDARD ADDRESSES & polled interrupts (Microsoft default)
- 1 Allows for STANDARD ADDRESSES & interrupt-driven printing (faster)
- 2 Allows for non-STANDARD ADDRESSES & polled interrupts
- 3 Allows for non-STANDARD ADDRESSES & interrupt-driven printing

ENHANCED CAPABILITIES PORT (ECP)

- 0 Allows for STANDARD ADDRESSES & polled interrupts, no DMA channels
- 1 Allows for STANDARD ADDRESSES & interrupt-driven printing, no DMA channels
- 2 Allows for STANDARD ADDRESSES & interrupt-driven printing, DMA channel selectable
- 3 Allows for non-STANDARD ADDRESSES & polled interrupts, no DMA channels
- 4 Allows for non-STANDARD ADDRESSES & interrupt-driven printing, DMA channel selectable

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 elect to enter the data, without scrolling through the list, the spaces that appear on either side of the hyphen are critical.

You may now restart Windows.

Lava

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