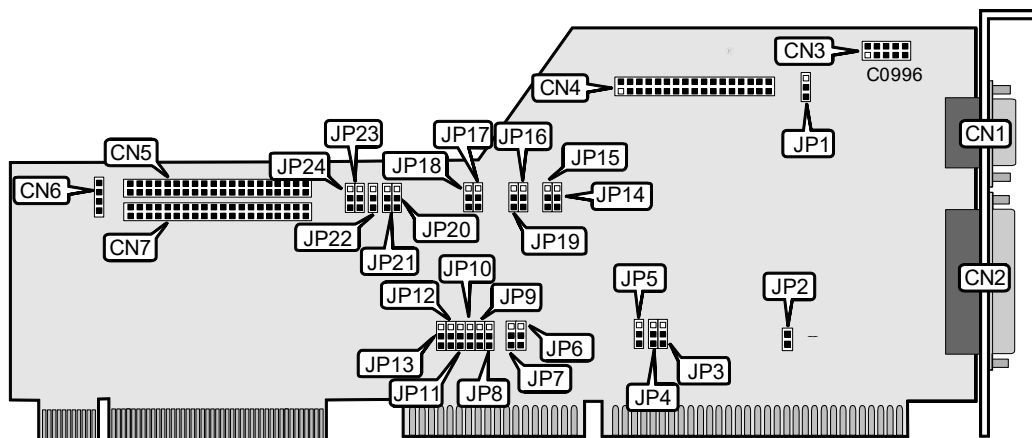


# LAVA COMPUTER MANUFACTURING, INC.

## VL-550

Data Bus  
Card Size  
Hard Drives supported  
Floppy drives supported

32-bit VESA Local Bus  
Three-quarter length, full-height card  
Four EIDE (AT) drives  
Two 360KB, 720KB, 1.2MB, or 1.44MB drives



### CONNECTIONS

| Function                              | Location | Function                            | Location |
|---------------------------------------|----------|-------------------------------------|----------|
| 9-pin serial port 1 - external        | CN1      | 40-pin primary EIDE(AT) connector   | CN5      |
| 25-pin parallel port - external       | CN2      | 4-pin connector - drive active LED  | CN6      |
| 25-pin serial port 2 - internal       | CN3      | 40-pin secondary EIDE(AT) connector | CN7      |
| 34-pin cable connector - floppy drive | CN4      |                                     |          |

Note: 25-pin serial port 2 connector is attached via ribbon to 10-pin internal connector CN3.

### USER CONFIGURABLE SETTINGS

| Function                             | Label | Position          |
|--------------------------------------|-------|-------------------|
| Floppy drive interface enabled       | JP1   | Pins 1 & 2 closed |
| Floppy drive interface disabled      | JP1   | Pins 2 & 3 closed |
| IOCHRDY signal disabled              | JP2   | Open              |
| IOCHRDY signal enabled               | JP2   | Closed            |
| Parallel port IRQ5 select            | JP5   | Pins 1 & 2 closed |
| Parallel port IRQ7 select            | JP5   | Pins 2 & 3 closed |
| Serial port 2 COM2 (2F8h) select     | JP17  | Pins 2 & 3 closed |
| Serial port 2 COM4 (2E8h) select     | JP17  | Pins 1 & 2 closed |
| Serial port 1 COM1 (3F8h) select     | JP18  | Pins 2 & 3 closed |
| Serial port 1 COM3 (3E8h) select     | JP18  | Pins 1 & 2 closed |
| IDE(AT) secondary interface enabled  | JP22  | Pins 2 & 3 closed |
| IDE(AT) secondary interface disabled | JP22  | Pins 1 & 2 closed |
| VESA local bus speed 33 Mhz select   | JP23  | Pins 1 & 2 closed |
| VESA local bus speed 50 Mhz select   | JP23  | Pins 2 & 3 closed |
| IDE(AT) interface enabled            | JP24  | Pins 2 & 3 closed |
| IDE(AT) interface disabled           | JP24  | Pins 1 & 2 closed |

### DMA CHANNEL SELECTION

| Channel | JP3               | JP4               |
|---------|-------------------|-------------------|
| 1       | Pins 1 & 2 closed | Pins 1 & 2 closed |
| 3       | Pins 2 & 3 closed | Pins 2 & 3 closed |

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| PARALLEL PORT ADDRESS SELECTION |                   |                   |
|---------------------------------|-------------------|-------------------|
| Setting                         | JP14              | JP15              |
| LPT1 (3BCh)                     | Pins 1 & 2 closed | Pins 1 & 2 closed |
| LPT2 (378h)                     | Pins 2 & 3 closed | Pins 1 & 2 closed |
| LPT3 (278h)                     | Pins 1 & 2 closed | Pins 2 & 3 closed |
| Disabled                        | Pins 2 & 3 closed | Pins 2 & 3 closed |

| SERIAL PORT 1 INTERRUPT SELECTION |       |       |       |       |       |       |       |       |
|-----------------------------------|-------|-------|-------|-------|-------|-------|-------|-------|
| IRQ                               | JP6   | JP7   | JP8   | JP9   | JP10  | JP11  | JP12  | JP13  |
| IRQ2                              | Open  | Open  | 2 & 3 | Open  | Open  | Open  | Open  | Open  |
| IRQ3                              | 2 & 3 | Open  | Open  | Open  | Open  | Open  | Open  | Open  |
| IRQ4                              | Open  | 2 & 3 | Open  | Open  | Open  | Open  | Open  | Open  |
| IRQ5                              | Open  | Open  | Open  | 2 & 3 | Open  | Open  | Open  | Open  |
| IRQ10                             | Open  | Open  | Open  | Open  | 2 & 3 | Open  | Open  | Open  |
| IRQ11                             | Open  | Open  | Open  | Open  | Open  | 2 & 3 | Open  | Open  |
| IRQ12                             | Open  | Open  | Open  | Open  | Open  | Open  | 2 & 3 | Open  |
| IRQ15                             | Open  | Open  | Open  | Open  | Open  | Open  | Open  | 2 & 3 |

Note: Designated pins should be in the closed position.

| SERIAL PORT 2 INTERRUPT SELECTION |       |       |       |       |       |       |       |       |
|-----------------------------------|-------|-------|-------|-------|-------|-------|-------|-------|
| IRQ                               | JP6   | JP7   | JP8   | JP9   | JP10  | JP11  | JP12  | JP13  |
| IRQ2                              | Open  | Open  | 1 & 2 | Open  | Open  | Open  | Open  | Open  |
| IRQ3                              | 1 & 2 | Open  | Open  | Open  | Open  | Open  | Open  | Open  |
| IRQ4                              | Open  | 1 & 2 | Open  | Open  | Open  | Open  | Open  | Open  |
| IRQ5                              | Open  | Open  | Open  | 1 & 2 | Open  | Open  | Open  | Open  |
| IRQ10                             | Open  | Open  | Open  | Open  | 1 & 2 | Open  | Open  | Open  |
| IRQ11                             | Open  | Open  | Open  | Open  | Open  | 1 & 2 | Open  | Open  |
| IRQ12                             | Open  | Open  | Open  | Open  | Open  | Open  | 1 & 2 | Open  |
| IRQ15                             | Open  | Open  | Open  | Open  | Open  | Open  | Open  | 1 & 2 |

Note: Designated pins should be in the closed position.

| PARALLEL PORT MODE SELECTION |                   |                   |
|------------------------------|-------------------|-------------------|
| Setting                      | JP16              | JP19              |
| Uni-directional              | Pins 1 & 2 closed | Pins 1 & 2 closed |
| EPP                          | Pins 1 & 2 closed | Pins 2 & 3 closed |
| EPP/ECP                      | Pins 2 & 3 closed | Pins 1 & 2 closed |
| External floppy disk mode    | Pins 2 & 3 closed | Pins 2 & 3 closed |

| VESA BUS I/O DELAY MODE SELECTION |                   |                   |
|-----------------------------------|-------------------|-------------------|
| Setting                           | JP20              | JP21              |
| PIO mode 0 - 600nsec              | Pins 1 & 2 closed | Pins 1 & 2 closed |
| PIO mode 1 - 500nsec              | Pins 2 & 3 closed | Pins 1 & 2 closed |
| PIO mode 2 - 400nsec              | Pins 1 & 2 closed | Pins 2 & 3 closed |
| PIO mode 3 - 240nsec              | Pins 2 & 3 closed | Pins 2 & 3 closed |