



## LAVA COMPUTER MFG. INC.

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## WINDOWS VISTA 32-BIT SUPPORT FOR CURRENT BOARD-LEVEL PRODUCTS

Microsoft's Windows Vista operating system requires that drivers be updated for a number of LAVA products. This document identifies the level of support for each currently-shipping or recent LAVA board-level product, and details additional information to assist in making products work in Windows Vista (32-bit version).

LAVA products have three levels of support for operation under Microsoft Windows Vista: 1) products with support currently available; 2) products that cannot be supported; and 3) products that are not currently supported but will receive support in the future.

NOTE: In some cases, support differences exist between chipset versions of the same board. Instances are identified in the "Notes" column of the tables below. When "S1" ASIC is referred to, you can identify this chip by looking for the text "PN MOKO - S1" on the chip with a LAVA logo silkscreened onto it. When "S2" ASIC is referred to, you can identify this chip by looking for the text "PN MOKO - S2" on the chip with a LAVA logo silkscreened onto it.

### The following products **ARE SUPPORTED** in Microsoft Windows Vista 32 bit.

#### LAVA Products SUPPORTED in Microsoft Windows Vista

Product	Description		Notes
<b>Serial PCI</b>			
SSerial-PCI	One 9-pin port, 16550 UART	<a href="#">DOWNLOAD</a>	S1 & S2 ASICs
SSerial-PCI/LP	One 25-pin port, 16550 UART, low-profile	<a href="#">DOWNLOAD</a>	S1 & S2 ASICs
RS422 SS-PCI	One 9-pin port, 16550 UART, RS-422 pinout	<a href="#">DOWNLOAD</a>	S1 & S2 ASICs
LavaPort-650	One 9-pin port, 16650 UART	<a href="#">DOWNLOAD</a>	S1 & S2 ASICs
DSerial-PCI	Two 9-pin ports, 16550 UARTs	<a href="#">DOWNLOAD</a>	S1 & S2 ASICs
DSerial-PCI/LP	Two 9-pin ports, 16550 UARTs, low-profile	<a href="#">DOWNLOAD</a>	S1 & S2 ASICs
DSerial-PCI 3.3V	Two 9-pin ports, 16550 UARTs, for 3.3 volt PCI, PCI-X	<a href="#">DOWNLOAD</a>	supported
DSerial-PCI Powered	Two 9-pin ports, 16550 UARTs, 5 & 12 VDC powered ports	<a href="#">DOWNLOAD</a>	S1 & S2 ASICs
DSerial-PCI O/S2	Two 9-pin ports, 16550 UARTs, for O/S2 [PCB identifier text: "O/S2 Ready"]	<a href="#">DOWNLOAD</a>	S2 ASIC only; needs "mf.sys" installation
LavaPort-PCI	Two 9-pin ports, 16650 UARTs	<a href="#">DOWNLOAD</a>	S1 & S2 ASICs
Quattro-PCI	Four 9-pin ports, 16550 UARTs	<a href="#">DOWNLOAD</a>	S2 ASIC only; needs "mf.sys" installation
Quattro-PCI 3.3V	Four 9-pin ports, 16550 UARTs, for 3.3 volt PCI, PCI-X	<a href="#">DOWNLOAD</a>	supported
Quattro-PCI/LP	Four 9-pin ports, 16550 UARTs, low profile	<a href="#">DOWNLOAD</a>	S2 ASIC only; needs "mf.sys" installation
Quattro-PCI Powered	Four 9-pin ports, 16550 UARTs, 5 & 12 VDC powered ports	<a href="#">DOWNLOAD</a>	S2 ASIC only; needs "mf.sys" installation
LavaPort-Quad	Four 9-pin ports, 16650 UARTs	<a href="#">DOWNLOAD</a>	S2 ASIC only; needs "mf.sys" installation
Octopus-550	Eight 9-pin ports, 16550 UARTs	<a href="#">DOWNLOAD</a>	S2 ASIC only; needs "mf.sys" installation

Serial ISA			
SSerial-550	One 25-pin port, COM 1-4, 16550 UART	<a href="#">DOWNLOAD</a>	supported
LavaPort-ISA	One 9-pin port, COM 1-4, 16650 UART	<a href="#">DOWNLOAD</a>	supported
DSerial-550	Two 9-pin ports, COM 1-6, 16550 UARTs	<a href="#">DOWNLOAD</a>	supported
RS422-550	Two 9-pin ports, 16550 UARTs, RS-422 pinouts	<a href="#">DOWNLOAD</a>	supported
Combo PCI Boards			
SP-PCI	One 9-pin serial port, 16550 UART, one 25-pin bi-directional parallel port	<a href="#">DOWNLOAD</a>	S2 ASIC only; needs "mf.sys" installation
Combo ISA Board			
2SP-ISA	Two serial ports (9 & 25 pin), 16550 UARTs, IRQ2/3/4/5/10/11/12/15, COM 1-4; one 25-pin bi-directional parallel port, LPT 1-2, IRQ 5/7	<a href="#">DOWNLOAD</a>	supported
Parallel PCI I/O Boards			
Parallel-PCI	One 25-pin Enhanced Parallel Port (EPP)	<a href="#">DOWNLOAD</a>	supported
Parallel-PCI 3.3V	One 25-pin Enhanced Parallel Port (EPP), for 3.3 volt PCI and PCI-X	<a href="#">DOWNLOAD</a>	supported
Parallel-PCI/LP	One 25-pin Enhanced Parallel Port (EPP), low-profile	<a href="#">DOWNLOAD</a>	supported
Parallel ISA I/O Boards			
Parallel Bi-directional	One 25-pin, 8-bit bi-dir. port, LPT 1-3, IRQ 5/7/none	<a href="#">DOWNLOAD</a>	supported

#### "MF.SYS" INSTALLATION

A number of LAVA devices install ports as multifunction devices. The software support in Windows Vista for multifunction devices was however omitted by Microsoft in Windows Vista, where it had been included by default in earlier Windows versions. For multifunction devices to install properly in Windows Vista, users first must download and install Microsoft's "mf.sys" file according to the instructions available on the Microsoft web site at:

<http://support.microsoft.com/kb/926171>

**The following LAVA products **DO NOT OPERATE** in Windows Vista, and, due to the hardware requirements of Vista, will not be supported in the future for Windows Vista use.**

#### LAVA Products NOT SUPPORTED in Microsoft Windows Vista

Product	Description	Notes
Serial PCI		
DSerial-PCI O/S2	Two 9-pin ports, 16550 UARTs, for O/S2 [PCB identifier text: "O/S2 Ready"]	S1 ASIC not supported
Quattro-PCI	Four 9-pin ports, 16550 UARTs	S1 ASIC not supported
Quattro-PCI/LP	Four 9-pin ports, 16550 UARTs, low profile	S1 ASIC not supported
Quattro-PCI Powered	Four 9-pin ports, 16550 UARTs, 5 & 12 VDC powered ports	S1 ASIC not supported
LavaPort-Quad	Four 9-pin ports, 16650 UARTs	S1 ASIC not supported
Combo PCI Boards		
SP-PCI	One 9-pin serial port, 16550 UART, one 25-pin bi-directional parallel port	S1 ASIC not supported

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The following products are **not currently supported** in Microsoft Windows Vista, but with hardware modifications may receive support in the future

LAVA Products NOT CURRENTLY SUPPORTED in Microsoft Windows Vista

Product	Description	Notes
<b>Combo PCI Boards</b>		
2SP-PCI	Two serial ports (9 & 25 pin), 16550 UARTs, one 25-pin EPP parallel port	no current support
LavaPort-Plus	Two serial ports (9 & 25 pin), 16650 UARTs, one 25-pin EPP parallel port	no current support
<b>Parallel PCI I/O Boards</b>		
Dual Parallel-PCI	Two 25-pin Enhanced Parallel Ports (EPPs), both ports share one IRQ	no current support

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**NOTE ON WARRANTY SUPPORT FOR LEGACY LAVA PRODUCTS OPERATING UNDER WINDOWS VISTA**

As the hardware requirements of Windows Vista prevent some legacy LAVA products from operating, we do not support these products under warranty in this environment and will not in the future.