

Medical Devices Connect Simply with LAVA

LAVA I/O cards & serial device servers for Mission Critical Medical/Health Care

In medical environments where lives are at stake and lawsuits abound, reliable data transmission must be assured 100% of the time. Here's where LAVA add-in cards and serial device servers can play a major role in safeguarding serial data transmission for such applications as:

*Automating pharmaceutical & medication dispensaries
Remote monitoring & testing diagnostic equipment; and
Managing patient records and billing – securely.*

With LAVA device servers and add-in serial cards, patient monitoring devices such as analyzers, pumps, ventilators and virtually any diagnostic tool that utilizes serial communications can be networked over IP, LAN, or WAN to improve operational efficiencies.

Achieve greater operational or cost efficiencies with LAVA when you:

*Reduce cabling by using a shared network instead of point-to-point connections.
Bring your equipment up-to-date on today's networking standards without
uprooting any part of your installed infrastructure.
Remotely monitor, control and share patient data or billing records.*



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LAVA's **DSerial PCI** and **DSerial-550 ISA** cards enable Trillium Healthcare Products to expand the communication capabilities of our pharmaceutical Weigh or Dispense Systems.

We utilize these cards for the system's multiple RS-232 input devices such as floor and tabletop scales and label printers.

*Rob Booth
Trillium Health Care Products Inc.*



Embedding the 4-port **LAVA Ether-Serial Link** in our dialysis pump testing equipment ensures we don't have to re-engineer any part of our medical production department. Since our test equipment utilizes serial interfaces, the **LAVA Ether-Serial Link** is the ideal, 'off-the-shelf' solution.

*Mike Gann
Diener Precision Pumps*



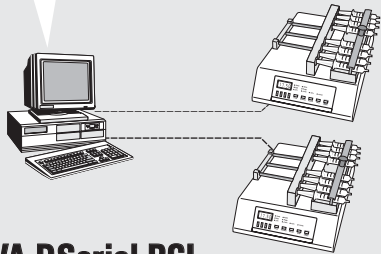
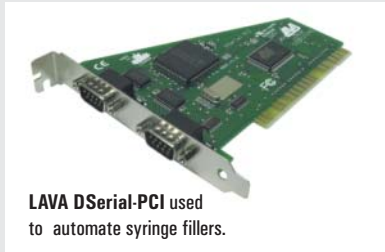
"Thank you for providing the **LavaPort** interface which allows us to correctly and easily read and burn micro chips necessary in our Medical Instrument repair services. This product came recommended from a competitor who has had great results in your card's ability to communicate with our external hardware, making reading and writing EEPROM chips a cinch!

*John Fox
United Medical Services LLC*



LAVA DSerial-PCI for automating syringe filling

Because data can flow directly from a central location to any serial device such as equipment designed to fill syringes with calculated precision, the "tried and true" **LAVA DSerial-PCI** provides the easiest way to add two 16550 UART serial ports to a medical server while using only one system IRQ.



LAVA DSerial-PCI

- Adds two high-speed 16550 UART serial ports to PCI-equipped PCs
- Maximum data throughput rate up to 115.2 kbps
- Easy Plug and Play installation
- LAVA Lifetime Warranty

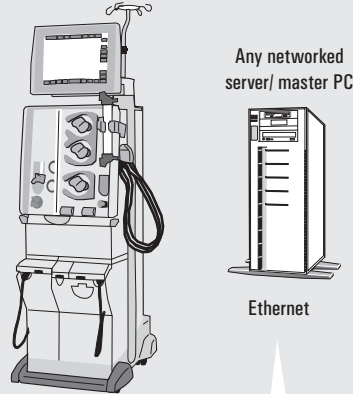
LAVA DSerial-550

Ideal for legacy medical systems where manual settings of IRQ and COM addresses is a must, the **LAVA DSerial-550** offers a generous selection of IRQ and COM port settings to minimize potential conflicts in resource allocation.

- Adds two high-speed 16550 UART serial ports to any ISA-equipped PC.
- Maximum data throughput rate up to 115.2 kbps
- Each serial port selectable for any of IRQ 2/3/4/5/7/10/11/12/15
- LAVA Lifetime Warranty

LAVA Ether-Serial Link for remote dialysis equipment testing

Field service calls and equipment malfunctions decrease dramatically when instruments can be monitored over a network. Service personnel can monitor peripherals in real time and troubleshoot system failures as they occur. The serial ports of **LAVA Ether-Serial Links** are enumerated as true native COM ports—that is, they appear and function as if they are natively attached to the medical test system.



LAVA Ether-Serial Link

- Adds four network-enabled RS-232 DB-9 serial ports to any Ethernet network
- Maximum data throughput rate up to 115.2 kbps
- Includes LAVA Ether Link Manager, making this the easiest device in its category to install and use
- LAVA Lifetime Warranty

LAVA Octopus-550 for robotic pharmaceutical dispensing

Using only one system IRQ, the **LAVA Octopus-550** enables the automatic selection of drugs, filling of containers, and printing bar-coded labels — all from one master computer.



Dispensary selects drugs, fills containers, and prints bar-coded label under master computer control.



LAVA Octopus-550

- Adds eight high-speed 16550 UART serial ports to any PCI-equipped PC
- Maximum data throughput rate up to 115.2 kbps
- Easy Plug and Play installation
- LAVA Lifetime Warranty

LAVA PayLink-IP/Dial for secure IP-payment processing

Designed for use with terminals with integrated dial-up modems, the 'hack proof' **LAVA PayLink-IP/Dial** provides secure and speedy communication of transaction data. It enables payment terminals with built-in modems to establish secure SSL IP-connections to a payment host.



LAVA PayLink-IP/Dial

- Single RJ-11 POTS port with 10 Base-T Ethernet interface (RJ-45)
- 128-bit SSL encryption for secure TCP/IP communications
- Intuitive installation and easy web-browser configuration
- LAVA Lifetime Warranty



About LAVA

LAVA Computer MFG headquartered in Toronto, ON, Canada, designs and manufactures serial and parallel I/O boards and Ethernet-to-serial device servers. With well over a million LAVA products built into workstations, servers, retail POS systems, and industrial computers since 1984, LAVA I/O boards and Ether-Serial Links are trusted by resellers, distributors, OEMs and system builders in over 47 countries worldwide. Designed for lifetime performance, each LAVA connectivity link is covered by the LAVA Lifetime Warranty. <http://www.lavalink.com>. **Connect Simply**