

RS-232/422/485 Device Server

Access serial devices
across your network.



FEATURES

- » Fast to install, easy to manage.
- » Manageable through your Web browser.
- » Compact size.
- » Supports RS-232, RS-422, and RS-485.
- » RoHS compliant.



LES290A: rear view

OVERVIEW

The RS-232/422/485 Device Server is a quick and easy way to connect to an RS-232/422/485 serial device across your network. There's no need to run separate serial cable, and there are no distance limitations—anywhere your network goes, you can make a serial connection. Use the device server to access faraway serial devices such as printers, scanners, and industrial devices. And, because the device server accepts AT commands, you can even use it as a modem substitute, replacing a pair of modems and a phone line with a pair of device servers and your Ethernet network—a very economical solution for legacy devices that communicate by modem.

Operation is transparent to your equipment and your software. The device server encapsulates serial data into packets for transport over Ethernet. Another device server takes the data from the Ethernet side and turns it back into serial data.

The device server features a built-in Web server so you can access its management features from your PC using any standard Web browser. You can also manage it locally through the serial port or by using Telnet™. The device server also includes Windows® based configuration software.

TECH SPECS

Data Rate — Ethernet: 10/100 Mbps, autosensing or software selectable;
Serial: 300 bps to 230 kbps, software selectable
Management — Included Windows based configuration software, serial login, SNMP, Telnet login, HTTP
Serial Interface — RS-232, RS-422, or RS-485, software selectable; 7 or 8 data bits; even, odd, or no parity; 1 or 2 stop bits; CTS/RTS; X-ON/X-OFF
Standards — IEEE 802.3, IEEE 802.3u, ARP, UDP, TCP, ICMP, Telnet, TFTP, AutoIP, DHCP, HTTP, SNMP
CE Approval — Yes
Connectors — (1) RJ-45, (1) DB25 F
Indicators — LEDs: (1) Power, (1) Link/Activity, (1) Status
Environmental — Operating temperature: 41 to 122°F (5 to 50°C);
Storage temperature: -40 to +151°F (-40 to +66°C)
Power — 100–240 VAC, 50–60 Hz external power supply
Size — 0.9"H x 2.5"W x 3.5"D (2.3 x 6.4 x 9 cm)

Technically Speaking

Terminal servers.

A terminal server (sometimes called a serial server or a console server or a device server) is a hardware device that enables you to connect serial devices across a network.

Terminal servers acquired their name because they were originally used for long-distance connection of dumb terminals to large mainframe systems such as VAX™. Today, the name terminal server refers to a device that connects any serial device to a network, usually Ethernet. In this day of network-ready devices, terminal servers are not as common as they used to be, but they're still frequently used for applications such as remote connection of PLCs, sensors, or automatic teller machines.

The primary advantage of terminal servers is that they save you the cost of running separate RS-232 devices. By using a network, you can connect serial devices even over very long distances—as far as your network stretches. It's even possible to connect serial devices across the Internet. A terminal server connects the remote serial device to the network, and then another terminal server somewhere else on the network connects to the other serial device.

Terminal servers act as virtual serial ports by providing the appropriate connectors for serial data and also by grouping serial data in both directions into Ethernet TCP/IP packets. This conversion enables you to connect serial devices across Ethernet without the need for software changes.

Because terminal servers send data across a network, security is a consideration. If your network is isolated, you can get by with an inexpensive terminal server that has few or no security functions. But if you're using a terminal server to make network connections across a network that's also an Internet subnet, you should look for a terminal server that offers extensive security features.

Item

RS-232/422/485 Device Server

Code

LES290A