



Device Server

- ▶ Remotely monitor, manage, and control serial devices over Ethernet
- ▶ Replace limited-distance point-to-point serial connections
- ▶ Configure with included Windows® software or via built-in web server
- ▶ Software selectable RS232, RS-422, or RS-485 interface 10Base-T/100Base-TX Ethernet
- ▶ Compact size enables it to fit almost anywhere

Remotely Monitor, Manage, and Share Connected Devices Over a Network or the Internet

The UDS100 Device Server lets you connect serial devices to IP-based Ethernet networks, quickly and easily. Powered by DSTni-LX, Lantronix's own device networking chip, the UDS100 lets you replace limited distance, point-to-point serial connections.

Using a method called serial tunneling, the UDS100 encapsulates serial data into packets and transports it over Ethernet. Using two UDS100s, connected by a network, virtual serial connections can be extended across a facility or around the world.

Our approach to network-enabling devices is transparent to your attached devices and software. So, you won't need to change the way you work, and there's no need to develop special software to take advantage of Ethernet networking.

The included redirection software simplifies your integration process by extending the functionality of your COM-port-based Windows® applications. With virtual COM ports, mapped to remote Device Servers on the network, you can replace direct serial connections.

In modem emulation mode, the UDS100 is used to replace dial-up modems. The unit accepts modem AT commands on the serial port, then establishes a network connection

to the end device, leveraging network infrastructure and bandwidth to eliminate dedicated modems and phone lines.

The UDS100 even includes a built-in web server, which can be used for configuration, or to display operating and troubleshooting information on the attached device. When attached to the Internet, it provides links to online support.

Where there's a need for custom user interfaces and a desire to use familiar tools, the UDS100 can serve Java applets to a user's web browser. In this role, the UDS100 becomes a conduit between you and your device over the network or Internet.

The included Windows based configuration software simplifies installation and setup. The UDS100 can also be set up locally through its serial port, or remotely over a network using Telnet or a web browser.

Flash memory provides for maintenance-free non-volatile storage of web pages, and allows future system software upgrades.

If you're looking for a transparent, cost-effective, and scalable means to network-enable your serial devices, look no further than Lantronix.





Features

Serial Interface

Interface: RS-232, RS-422, or RS-485 (2/4 wire)
 Connector: DB25 (Female, DCE configuration)
 Data Rates: 300 to 115,200 bps
 Characters: 7 or 8 data bits
 Parity: odd, even, none
 Stop Bits: 1 or 2
 Control Signals: RTS, CTS, DSR, DTR, DCD
 Flow Control: XON/XOFF, RTS/CTS

Network Interface

Interface: Ethernet 10Base-T/100Base-TX
 Connector: RJ45
 Standards: ARP, UDP/IP, TCP/IP, ICMP, SNMP, AutoIP, DHCP, TFTP, Telnet, and HTTP

Indicators (LED)

10 Link/Activity (green), 100 Link/Activity (green), Collision (red), Diagnostics (red), Status (green)

Processor

CPU: DSTni-LX (enhanced 80186, 48 MHz)
 Memory: 256Kbytes SRAM, 1 Mbyte flash

Management

Serial login, SNMP, Telnet login, internal web server

Internal Web Server

Uses: Serve static web pages and Java applets
 Storage capacity: 896 Kbytes

Power

Input: 9 to 30 VAC/VDC
 Consumption: 1 W max.
 AC adapter included (see Ordering Information below)

Environmental

Operating: 5° to 50°C (41° to 122°F)
 Storage: -40° to 66°C (-40° to 151°F)

Packaging

Material: Metal case with flange mount
 Dimensions: 23 x 64 x 90 mm (0.9 x 2.5 x 3.5 in)
 Weight: 0.35 kg (0.8 lbs)

Agency Approvals

FCC-B, C/UL, CSA, CE, TUV

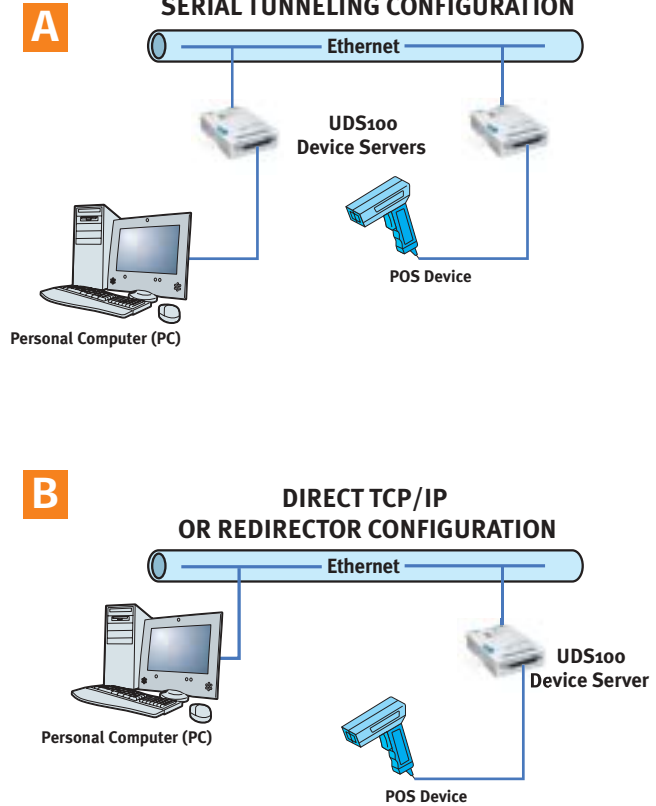
Warranty

1-year limited warranty

Shipping Dimensions

Dimensions: 115 x 242 x 191 mm (4.5 x 9.5 x 7.5 in)
 Weight: 1.5 kg (3.0 lbs)

Example Configurations



Included Software

Included Windows 98/ME/NT/2000/XP-based configuration software, Com Port Redirector™ software, and related utilities

Ordering Information

UDS100-01 (115 VAC, 50/60 Hz adapter)
 UDS100-02 (100-240 VAC, 50/60 Hz Intl. adapter)

Device Server: serial interface (RS-232, RS-422, RS-485), 10Base-T/100Base-TX Ethernet, diagnostic LEDs, AC power adapter, CD-ROM with configuration tools and documentation, printed Quick Start Guide.

LANTRONIX®

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