UDS2100 Device Server

- Network virtually any device in minutes
- Access, monitor and control equipment over Ethernet
- Replace dedicated PCs and/or modem lines with fast and reliable Ethernet networking
- Configure quickly and easily via HTTP, DHCP, Telnet, serial or Lantronix DeviceInstaller™ utility
- Two DB9M DTE serial ports supporting RS232, RS422 and RS485
- Environmentally-friendly RoHS and WEEE compliant
- Features TruPort® Com port control technology

Remotely Monitor, Manage and Share Equipment Over the Net

The UDS family of device servers enables users to connect, manage and control just about any piece of equipment with a serial port from virtually anywhere over Ethernet or the Internet.

With the UDS2100, two pieces of equipment of virtually any type can be added to an Ethernet network in a matter of minutes! This dual-port device server is a quick, simple and inexpensive way to bring the advantages of remote management and control to equipment not currently connected to a network.

Extending Serial Communications Across the Globe

Our approach to network-enabling devices is transparent to your attached equipment and software so you won’t need to change the way you work. Using a method called serial tunneling, the UDS2100 encapsulates serial data into packets and transports it over Ethernet. Serial tunneling can be done in two ways:

→ Using Lantronix supplied Com Port Redirector™ software, Windows® device applications not designed for network communications are re-directed to communicate to devices connected to the UDS2100.

→ Connecting two UDS2100 device servers configured to automatically talk to each other over the network creates virtual serial connections that can extend serial communications across a facility or around the world.

The built-in web server enables users to access and configure the UDS2100 from a standard web browser. Using Lantronix development tools, users can build web pages to customize the UDS2100 for unique applications.

On-board Flash memory provides room for future system software upgrades and maintenance-free, nonvolatile web page storage.

Easy to Set Up and Use

The UDS2100 can be set up locally through its serial port, or remotely using Telnet or a web browser. The included DeviceInstaller™ Windows-based configuration software simplifies setup and provides an easy way to:

→ Assign IP & other network specific addresses
→ Load custom web pages
→ Enable web-based configuration of the device server
→ Ping or query the attached device(s) over the network
→ View specific device data files
→ Upgrade firmware

Modem Replacement

In modem emulation mode, the UDS is used to replace dial-up modems. The unit accepts modem AT commands on the serial port. It then establishes a network connection to the end device, leveraging network connections and bandwidth to eliminate dedicated modems and phone lines.

Total Com Port Control with TruPort Technology

Built into the included Com Port Redirector software, TruPort® technology enables Windows-based applications to access and control serial ports on the UDS2100 as if they were actually local PC serial ports. The application can monitor and set hardware pins on the UDS2100 serial ports as well as access serial buffers for total Com port control. This allows existing applications to seamlessly transition from controlling local devices to true remote monitoring and control of devices around the world.
Features and Specifications

Serial Interface
- Interface: Software-selectable RS232, RS422 or RS485 (2 and 4 wire support)
- Connectors: 2 DB9M DTE serial ports
- Data Rates: Software-selectable baud rate from 300 to 921 KBaud
- Characters: 7 or 8 data bits
- Parity: odd, even, none
- Stop Bits: 1 or 2
- Control Signals: CTS/RTS (Hardware)
- Flow Control: XON/XOFF (Software)

Network Interface
- Interface: 10Base-T/100Base-TX Ethernet port
- Software selectable Ethernet speed: 10/100/Auto
- Software selectable Half/Full/Auto duplex
- Connector: RJ45
- Standards: ARP, UDP, TCP, Telnet, TFTP, Autop IP, DHCP, HTTP, SNMP, TCP, UDP, and Telnet, TFTP, RFC2217

LED Indicators
- Power (blue)
- RXI Serial (Activity) (green)
- TXI Serial (Activity) (yellow)
- RX2 Serial (Activity) (green)
- TX2 Serial (Activity) (yellow)
- RJ45 LEDs Link (100 = green, 10 = yellow)
- Act (Full = green, Half duplex = green)

Processor
- CPU: Lantronix DSTNI-EX 48 MHz clock
- Memory: 256 KB zero wait state SRAM, 2 MB Flash

Management
- Lantronix DeviceInstaller GUI, Serial login, SNMP, Telnet login, HTTP

Power
- 9-30 VDC on barrel connector (1.8 Watts maximum consumption)

Environmental
- Operating: 0° to 60° C (32° to 140°F)
- Storage: -40° to 85° C (-40 to 185°F)

Packaging
- Material: Metal enclosure with integrated wall mounts; optional 35 mm DIN-rail mount available
- Dimensions (LxWxH): 9.5 x 7.2 x 2.3 cm (3.7 x 2.8 x 0.9 in)
- Weight: 0.4 kg (0.9 lb)
- IP Rating: 30

Agency Approvals
- FCC, CUL, CSA, VCCI, CE, TUV, Ctick

Warranty
- 2-year limited warranty

Shipping Dimensions
- Dimensions (LxWxH): 35.5 x 17.1 x 7.6 cm (14 x 6.75 x 3 in)
- Weight: 1.5 kg (3.0 lbs)

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

Ordering Information

<table>
<thead>
<tr>
<th>Part Number</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>UD21000001-01</td>
<td>UDS2100 two-port 10/100 device server; RoHS compliant with US domestic power supply</td>
</tr>
<tr>
<td>UD21000002-01</td>
<td>UDS2100 two-port 10/100 device server RoHS compliant; international power supply with regional adapters</td>
</tr>
<tr>
<td>UD2100NL2-01</td>
<td>UDS2100 two-port 10/100, non-labeled device server; RoHS compliant; international power supply with regional adapters</td>
</tr>
</tbody>
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Accessories
- 500-164-R: DB9F to DB9F Null modem cable
- 500-163-R: DB25M to DB9F serial cable
- ACDIN2001-01: Optional DIN-rail mount