



## UDS1100-B Device Server

- Quick way to embed network connectivity to access, monitor and control equipment over Ethernet
- RS-232, RS422 or RS-485 serial support
- RJ45 10Base-T/100Base-TX Ethernet Interface
- Configurable via internal web server, Telnet on serial
- 2 MB Flash ROM
- Environmentally-friendly RoHS and WEEE compliant
- Compact design allows for easy integration

## Quickly Network Enable Equipment Allowing Remote Monitoring and Management From Anywhere on the Net

Lantronix UDS1100-B Device Server, can quickly and easily network-enable electronic equipment with a serial interface so it can be remotely accessed and controlled over the Net. This flexible product is designed to be integrated with the circuit board of devices like factory machinery, security systems, heating and ventilation systems, lighting control systems and point-of-sale devices.

Building networking capability into a product can be a complex task. The UDS1100-B offers a flexible and easy-to-implement networking solution which enables OEMs to concentrate on their core competency, reduce time-to-market and quickly increase product value.

### Extending Communications Across the Globe

Using a method called ‘serial tunneling,’ the UDS1100-B encapsulates serial data into packets and transports it over Ethernet. Serial tunneling can be done in multiple ways:

- Using two Device Servers connected by a network, virtual serial connections can be extended across a facility or around the world.
- Implementing Lantronix COM Port Redirector™ software simplifies the integration process by extending the functionality of (serial) COM port-based Windows® applications. It redirects application data destined for a local serial (COM) port on a PC over the Ethernet network and through the UDS1100-B enabled device. Communications to or from the networked equipment is processed by the PC application as if it were from the local COM port.

- OEMs that have control over their application source can also modify their applications to communicate directly to the UDS1100-B.

### Easy to Set Up and Use

The built-in web server enables users to access and configure the UDS1100-B from a standard web browser. Web pages enabling the Device Server to be customized for unique applications can be built using Lantronix development tools. On-board Flash memory provides room for future system software upgrades and maintenance-free, non-volatile web page storage. The UDS1100-B can be set up locally through its serial port, or remotely using Telnet or a web browser. The Lantronix DeviceInstaller™ Windows-based configuration software simplifies setup and provides an easy way to:

- Discover and group devices on the local network
- 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.

RoHS-compliant, the UDS1100-B meets Directive 2002/95/EC on the restriction of the use of certain hazardous substances in electrical and electronic equipment.





## Features and Specifications

### Serial Interface

**Interface:** Software-selectable RS232, RS422 or

RS485 (2 and 4 wire support)

**Connectors:** 1 DB25F DCE serial port

**Data Rates:** Software-selectable baud rate from 300 to  
230 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, ICMP, Telnet, TFTP, AutoIP, DHCP, HTTP,  
SNMP TCP, UDP, and Telnet, TFTP

### Indicators (LED)

**Power, 10/100 Link/Activity** (green), **100/100**

**Link/Activity**(green), **Diagnostics** (red), **Status** (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 or 9-24 VAC on barrel connector (1.5 Watts  
maximum consumption)

9-30 VDC on DB25F serial interface

3.3 VDC on DB25F serial interface

### Environmental

**Operating:** -40° to 70° C (-40 to 158° F)

**Storage:** -40° to 85° C (-40 to 185° F)

### Packaging

Dimensions (LxWxH): 8.4 x 5.8 x 1.4 cm (3.3 x 2.3 x .55 in)

Weight: 0.12 kg (0.26 lb)

### Warranty

2-year limited warranty

### Isolation

Designed with protection against transients and ESD for  
use under harsh environments.

**Serial Port:** 15 KV ESD protection on RS232 and RS422/485  
transceivers

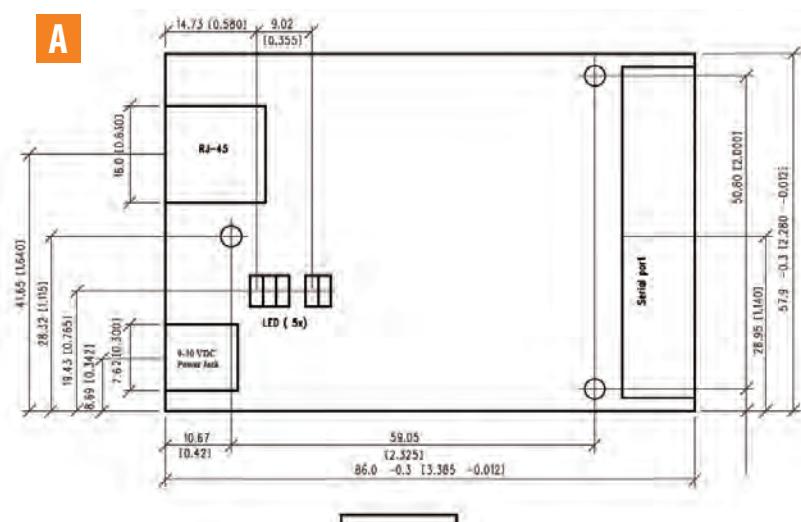
**Power Input:** Up to non-repeated 600 W 10/100 usec pulse  
protection against transient over voltages

**Ethernet Port:** 1500 VAC isolation shielded with shield  
connected to chassis ground for signal integrity and  
ESD protection

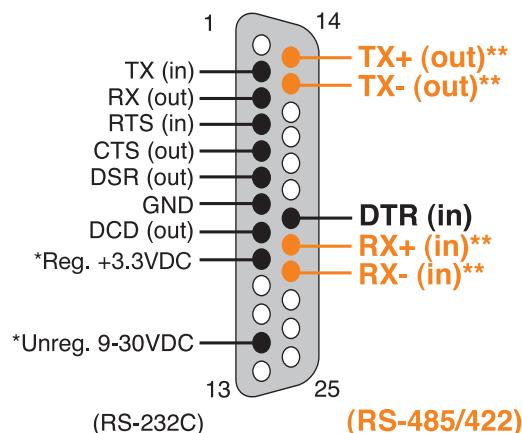
### Description

UDS1100-B board-level Device Server featuring a 10/100  
(RJ45) Ethernet Interface, 1 DB25F DCE RS232/422/485 serial  
interface TCP/IP protocol support, Flash ROM, diagnostic  
LEDs, HTTP, Telnet or serial management.

## UDS1100-B Board Layout



B



\*The Device Server can alternately be powered up via the serial port using one of these pins.

\*\*The minus sign (-) is sometimes represented as A (e.g., TXA).  
The plus sign (+) is sometimes represented as B (e.g., TXB).

## Ordering Information

| Part Number        | Description  |
|--------------------|--|
| UD110000-B-01      | UDS1100 Device Server board only                         |
| <b>Accessories</b> |  |
| 500-163            | DB25M to DB9F serial cable                               |
| 500-171-R          | DB25M to RS485 and power input screw<br>terminal adapter |

**LANTRONIX®**

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ООО "ЛайфЭлектроникс"

"LifeElectronics" LLC

ИНН 7805602321 КПП 780501001 Р/С 40702810122510004610 ФАКБ "АБСОЛЮТ БАНК" (ЗАО) в г.Санкт-Петербурге К/С 30101810900000000703 БИК 044030703

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С конца 2013 года компания активно расширяет линейку поставок компонентов по направлению коаксиальный кабель, кварцевые генераторы и конденсаторы (керамические, пленочные, электролитические), за счёт заключения дистрибуторских договоров

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- Специальные условия для постоянных клиентов.
- Подбор аналогов.
- Поставку компонентов в любых объемах, удовлетворяющих вашим потребностям.
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- Тестирование поставляемой продукции.
- Поставку компонентов, требующих военную и космическую приемку.
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- Техническую поддержку проекта.
- Защиту от снятия компонента с производства.
- Оценку стоимости проекта по компонентам.
- Изготовление тестовой платы монтаж и пусконаладочные работы.



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