LANTRONIX®

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.

RoHS WEEE COMPLIANT

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

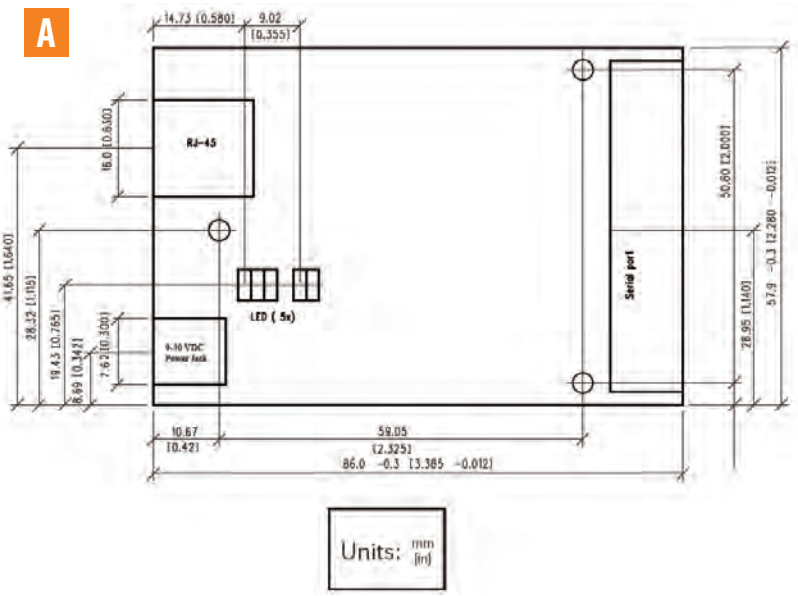
Designed with protection against transients and ESD for use under harsh environments.
Serial Port: 15 KV ESD protection on RS232 and RS422/485 transceivers
Power Input: Up to non-repeated 600 W 10/100 usec pulse protection against transient over voltages
Ethernet Port: 1500 VAC isolation shielded with shield connected to chassis ground for signal integrity and ESD protection

Description

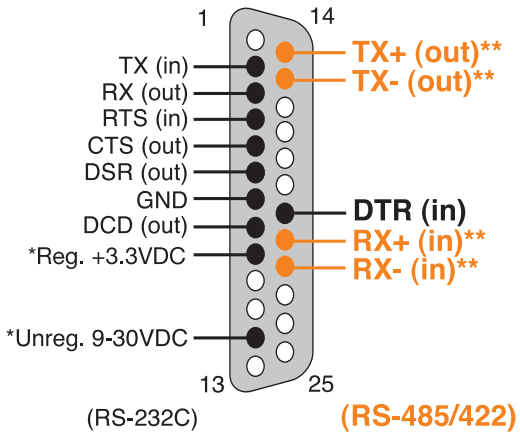
UDS1100-B board-level Device Server featuring a 10/100 (RJ45) Ethernet Interface, 1 DB25F DCE RS232/422/485 serial interface TCP/IP protocol support, Flash ROM, diagnostic LEDs, HTTP, Telnet or serial management.

UDS1100-B Board Layout

A



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
UD110000B-01	UDS1100 Device Server board only
Accessories	
500-163	DB25M to DB9F serial cable
500-171-R	DB25M to RS485 and power input screw terminal adapter

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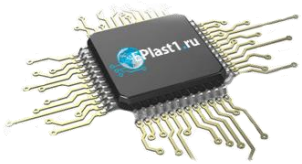
Компания «ЭлектроПласт» предлагает заключение долгосрочных отношений при поставках импортных электронных компонентов на взаимовыгодных условиях!

Наши преимущества:

- Оперативные поставки широкого спектра электронных компонентов отечественного и импортного производства напрямую от производителей и с крупнейших мировых складов;
- Поставка более 17-ти миллионов наименований электронных компонентов;
- Поставка сложных, дефицитных, либо снятых с производства позиций;
- Оперативные сроки поставки под заказ (от 5 рабочих дней);
- Экспресс доставка в любую точку России;
- Техническая поддержка проекта, помощь в подборе аналогов, поставка прототипов;
- Система менеджмента качества сертифицирована по Международному стандарту ISO 9001;
- Лицензия ФСБ на осуществление работ с использованием сведений, составляющих государственную тайну;
- Поставка специализированных компонентов (Xilinx, Altera, Analog Devices, Intersil, Interpoint, Microsemi, Aeroflex, Peregrine, Syfer, Eurofarad, Texas Instrument, Miteq, Cobham, E2V, MA-COM, Hittite, Mini-Circuits,General Dynamics и др.);

Помимо этого, одним из направлений компании «ЭлектроПласт» является направление «Источники питания». Мы предлагаем Вам помощь Конструкторского отдела:

- Подбор оптимального решения, техническое обоснование при выборе компонента;
- Подбор аналогов;
- Консультации по применению компонента;
- Поставка образцов и прототипов;
- Техническая поддержка проекта;
- Защита от снятия компонента с производства.



Как с нами связаться

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