LANTRONIX®

Single-Port Secure Device Server

- Securely network-enable serial devices with 128-256 bit AES-certified encryption
- Transparent communications - no need to develop special software
- RS-232 DCE serial port pinned the same as modem for easy connection
- 10/100 Ethernet Interface
- Supported by Lantronix's Secure Com Port Redirector™ software

SDS1101

SecureBox® Device Server

The Most Secure Way to Connect, Monitor, Manage and Control Devices Over a Network or the Internet

The SecureBox® SDS1101 offers the most secure way to add formerly isolated electronic equipment to the Ethernet network. With this capability, virtually any device with a serial port can be remotely accessed and controlled securely over the network or the Internet. This adds an unprecedented level of flexibility and efficiency to your business, and breathes new life into your existing equipment.

With the proliferation of information in today's electronic world, businesses are more concerned than ever about protecting data from unwanted intrusion as it is transferred over a network or the Internet. The SDS1101 features the most robust security available on the market with a National Institute of Standards and Technology (NIST) certified implementation of 128-256 bit AES (Advanced Encryption Standards; Rijndael) as specified by FIPS-197 (Federal Information Processing Standards).

Extending Serial Communication Across the Globe

SecureBox is ideal for commercial applications where secure data communications are essential, medical facilities, government agencies and financial institutions. Using a method called serial tunneling, SecureBox encrypts and encapsulates serial data into packets and transports it over Ethernet. Using two device servers connected by a network, secure virtual serial connections can be extended across a facility or around the world.

SecureBox SDS1101 can also work with Lantronix's Secure Com Port Redirector™ (SCPR) software to extend the functionality of COM port-based Windows® applications across Ethernet. SCPR creates encrypted virtual COM port connections to transport data to a remote SecureBox over the network or the Internet. This provides secure access and control of COM port-based applications from anywhere, at any time.

Easy to Setup and Use

The Lantronix approach to secure communications is transparent to your attached devices and software. There is no need to change the way you work or develop special software to encrypt/decrypt information over the network. The Windows-based configuration software, user-friendly web interface and on-line help simplify and streamline the set-up process. SecureBox can also be set up locally through its serial port, or remotely over a network using Telnet or a web browser. For added security, the web interface can be disabled.

Built to expand as your needs grow, SecureBox's Flash memory provides maintenance-free, non-volatile web page storage and facilitates easy future system upgrades.

Secure Modem Replacement

SecureBox can be used as a faster, less expensive and more reliable alternative to dial-up modems. In modem emulation mode, the unit accepts modem AT commands on the serial port and establishes a secure network connection to the end device, eliminating the need for dedicated modems and phone lines.

RoHS-compliant, the SDS1101 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

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

Packaging
Material: Metal enclosure with integrated wall mounts; optional 35 mm DIN-rail mount available
Dimensions (LxWxH): 9.0 x 6.4 x 2.3 cm (3.5 x 2.5 x 0.9 in)
Weight: 0.20 kg (0.45 lb)
IP Rating: 30

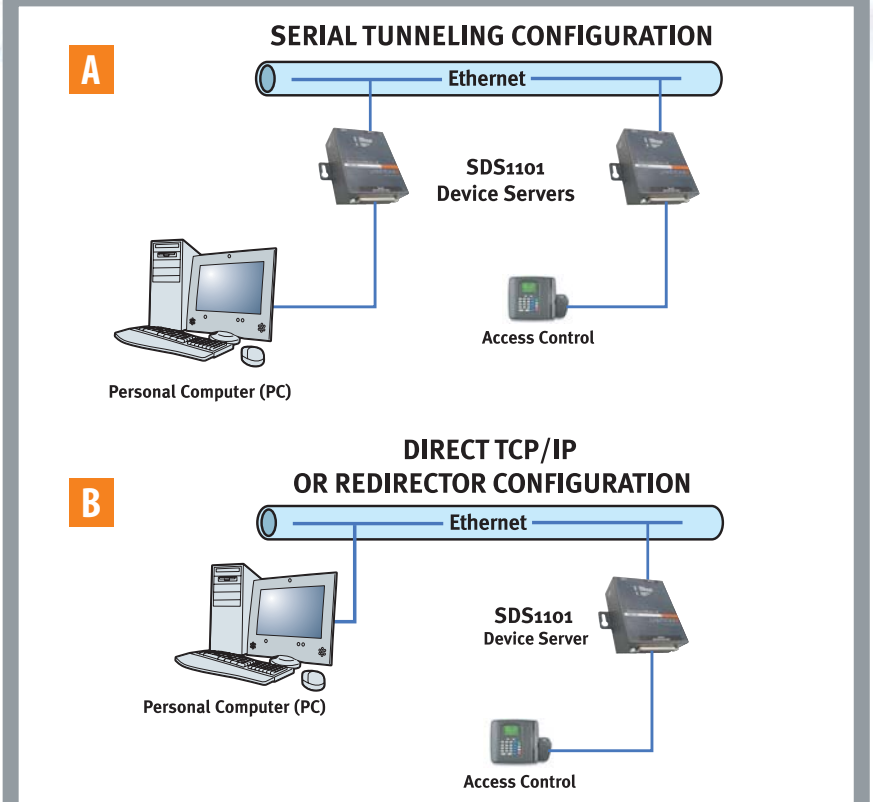
Agency Approvals
UL, CSA, FCC, CE, TUV, CTick, VCCI

Warranty
2-year limited warranty

Shipping Dimensions
Dimensions (LxWxH): 242 x 191 x 115 mm (9.5 x 7.5 x 4.5 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

SDS1101 Example Configurations



Emissions

FCC Part 15 Subpart B Class A	Radiated Emissions 30MHz – 1000MHz
ICES-003 Issue 4 February 2004 Class A	Radiated Emissions 30MHz – 1000MHz
AS/NZS CISPR 22: 2004 Class A	Radiated Emissions 30MHz – 1000MHz
EN55022: 1998 + A1: 2000 + A2: 2003 Class A	Radiated Emissions 30MHz – 1000MHz
VCCI V-3/2005.04 Class A	Radiated Emissions 30MHz – 1000MHz
EN61000-3-2: 2000 Class A	Harmonic Current Emissions
EN61000-3-3: 1995 + A1: 2001	Fluctuations and Flicker

Immunity

EN55024: 1998	+A1: 2001 +A2: 2003
IEC_61000-4-2: 1995	ESD 8KV Air Discharge (Direct), 4KV Contact Discharge (Direct/Indirect)
IEC_61000-4-3: 1995	Radiated Immunity 3.0V/m, 1KHz AM Sine Wave at 80%
IEC_61000-4-4: 1995	EFT/Burst 1.0KV Power Lines, 0.5KV I/O Lines
IEC_61000-4-5: 1995	Surge Immunity 1.0KV Common Mode, 1.0 KV Differential Mode
IEC_61000-4-6: 1996	Conducted Immunity 3.0 Vrms, 80% AM Modulated (1KHz)
IEC_61000-4-8: 1993	Magnetic Field Immunity 50Hz 1.0 Arms/m
IEC_61000-4-11: 1994	Voltage Dips and Interrupts (>95%, 0.5 periods), (30%, 25 periods), (>95%, 250 periods)

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

Ordering Information

Part Number	Description
SD1101002-11	SDS1101 single Port Secure device server with AES Encryption, universal power supply
Accessories	
500-163	DB25M to DB9F serial cable (included)
ACDIN1001-01	Optional DIN-rail mount
500-171-R	DB25M to RS485 and 9-30 VDC power input screw terminal adapter

LANTRONIX®

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OCEAN CHIPS
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Поставка электронных компонентов

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

Наши преимущества:

- Поставка оригинальных импортных электронных компонентов напрямую с производств Америки, Европы и Азии, а так же с крупнейших складов мира;
- Широкая линейка поставок активных и пассивных импортных электронных компонентов (более 30 млн. наименований);
- Поставка сложных, дефицитных, либо снятых с производства позиций;
- Оперативные сроки поставки под заказ (от 5 рабочих дней);
- Экспресс доставка в любую точку России;
- Помощь Конструкторского Отдела и консультации квалифицированных инженеров;
- Техническая поддержка проекта, помощь в подборе аналогов, поставка прототипов;
- Поставка электронных компонентов под контролем ВП;
- Система менеджмента качества сертифицирована по Международному стандарту ISO 9001;
- При необходимости вся продукция военного и аэрокосмического назначения проходит испытания и сертификацию в лаборатории (по согласованию с заказчиком);
- Поставка специализированных компонентов военного и аэрокосмического уровня качества (Xilinx, Altera, Analog Devices, Intersil, Interpoint, Microsemi, Actel, Aeroflex, Peregrine, VPT, Syfer, Eurofarad, Texas Instruments, MS Kennedy, Miteq, Cobham, E2V, MA-COM, Hittite, Mini-Circuits, General Dynamics и др.);

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AVIC JONHON

«JONHON» (основан в 1970 г.)

Разъемы специального, военного и аэрокосмического назначения:

(Применяются в военной, авиационной, аэрокосмической, морской, железнодорожной, горно- и нефтедобывающей отраслях промышленности)

«FORSTAR» (основан в 1998 г.)

ВЧ соединители, коаксиальные кабели, кабельные сборки и микроволновые компоненты:

(Применяются в телекоммуникациях гражданского и специального назначения, в средствах связи, РЛС, а так же военной, авиационной и аэрокосмической отраслях промышленности).

FORSTAR®

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