



SecureBox™ SDS1100 and SDS2100 Secure Device Servers

- ▶ Securely network-enable serial devices with 128-256 bit AES-certified encryption
- ▶ Transparent communications - no need to develop special software
- ▶ Two RS-232 DTE serial ports pinned the same as PC for easy connection
- ▶ 10/100 Ethernet Interface

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

The SecureBox family of device servers 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. SecureBox device servers feature 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).

Easy to install and implement, SecureBox device servers are 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.

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.

SecureBox device servers 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.

Available in single port (SDS1100) or dual port (SDS2100) configurations, SecureBox 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.

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. If you're looking for the most cost-effective and scalable solution for securely network-enabling your equipment, look no further than SecureBox.





Features

Serial Interface

Interface: **SDS1100:** RS-232, RS-422, or RS-485 (2/4 wire)

SDS2100: RS-232

Connectors: **SDS1100:** DB25 (Female, DCE configuration)

SDS2100: 2 DB9 (male, DTE 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

Data Encryption

128-256 Bit AES Encryption

NIST AES Cert #120

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)

SDS1100: 10 Link/Activity (green), 100 Link/Activity (green), Collision (red), Diagnostics (red), Status (green)

SDS2100: Power, 10 Link/Activity (green), 100 Link/Activity (green), Diagnostics (red), Status channel 1 (green), Status channel 2 (red)

Processor

CPU: DSTni-LX (enhanced 80186, 48 MHz)

Memory: 256 Kbytes SRAM, 1 Mbyte flash

Management

SDS1100: Serial login, SNMP, Telnet login, internal web server

SDS2100: Lantronix DeviceInstaller GUI, Serial login, SNMP, Telnet login, HTTP

Internal Web Server

Provides static web pages

Storage capacity: 896 Kbytes

Power

Input: **SDS1100:** 9 to 30 VAC/VDC

Consumption: 1 W max.

AC adapter included (see ordering information below)

Power input on standard power connector or through serial interface

SDS2100: 9 to 30 VAC/VDC

Consumption: 2 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: **SDS1100:** 23 x 64 x 90 mm (0.9 x 2.5 x 3.5 in)

SDS2100: 23 x 72 x 95 mm (0.9 x 2.8 x 3.7 in)

Weight: **SDS1100:** 0.35 kg (0.8 lbs) **SDS2100:** 0.4 kg (0.9 lbs)

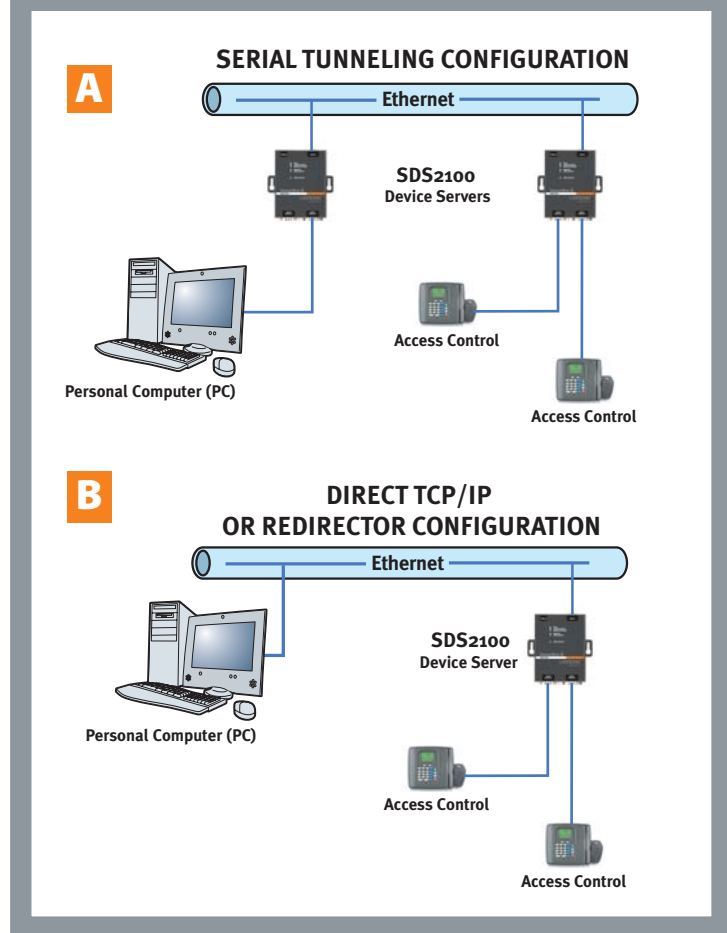
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910-432 08/05 DGS2500

Example Configurations



Agency Approvals

SDS1100: FCC-B, C/UL, CSA, CE, TUV

SDS2100: FCC-B, C/UL, CSA, CE, TUV, NIST AES FIPS-197 Cert #120

Warranty

SDS1100: 2-year limited warranty

SDS2100: 2-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)

Included Software

Included Windows 98/ME/NT/2000/XP-based configuration software, Com Port Redirector™ software, and related utilities. Secure Com Port Redirector is available as an option.

Ordering information

SD2100001-01 (115 VAC, 50/60 Hz adapter)

SD2100002-01 (100-240 VAC, 50/60 Hz Intl. adapter)

SD1100001-01 (115 VAC, 50/60 Hz adapter)

SD1100002-01 (100-240 VAC, 50/60 Hz Intl. adapter)

Secure Device Server: 2 DB9 RS-232 DTE serial ports, 10Base-T/100Base-TX Ethernet, diagnostic LEDs, AC power adapter, CD-ROM with configuration tools and documentation, printed Quick Start Guide.

Mouser Electronics

Authorized Distributor

Click to View Pricing, Inventory, Delivery & Lifecycle Information:

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[SD2100002-01](#) [SD1100001-01](#) [SD2100001-01](#) [SD1100002-01](#) [SD21000G2-01](#)