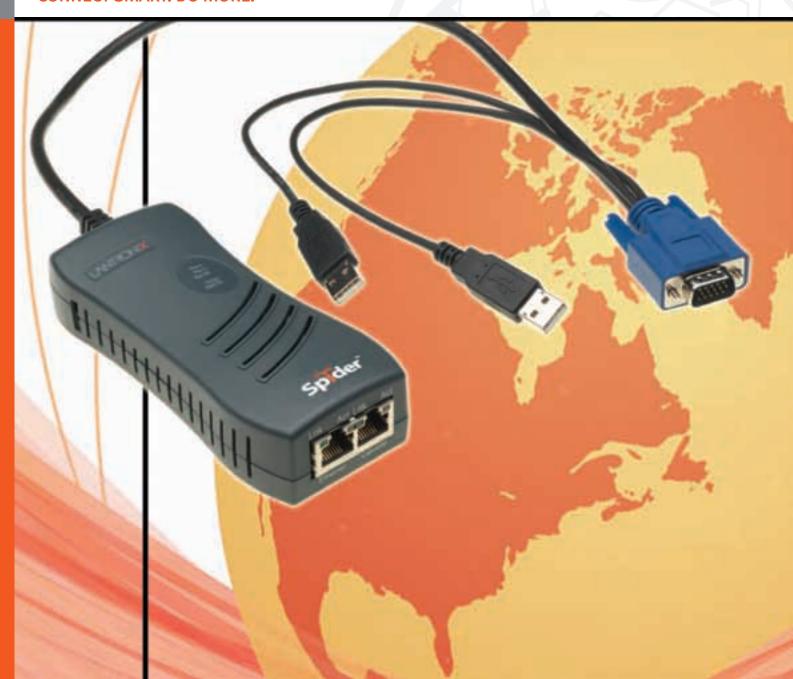
The Distributed KVM-over-IP Solution



CONNECT SMART. DO MORE.





The Next Generation KVM-over-IP

Distributed KVM for the Global IT Environment

Lantronix Spider[™] provides secure KVM (keyboard, video, mouse) server management over an IP network. Unlike any other product on the market, Spider offers a flexible, scalable and affordable CAT5-based remote access KVM solution in a cable friendly, compact "zero-footprint" package.

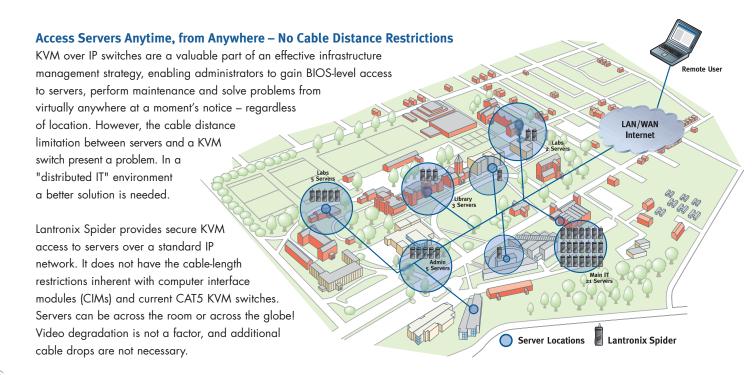
Spider is ideal for remotely managing geographically distributed IT equipment. It eliminates server-to-switch CAT5 cable distance limitations and gives system administrators 24/7 access to mission-critical servers distributed across a wide variety of network



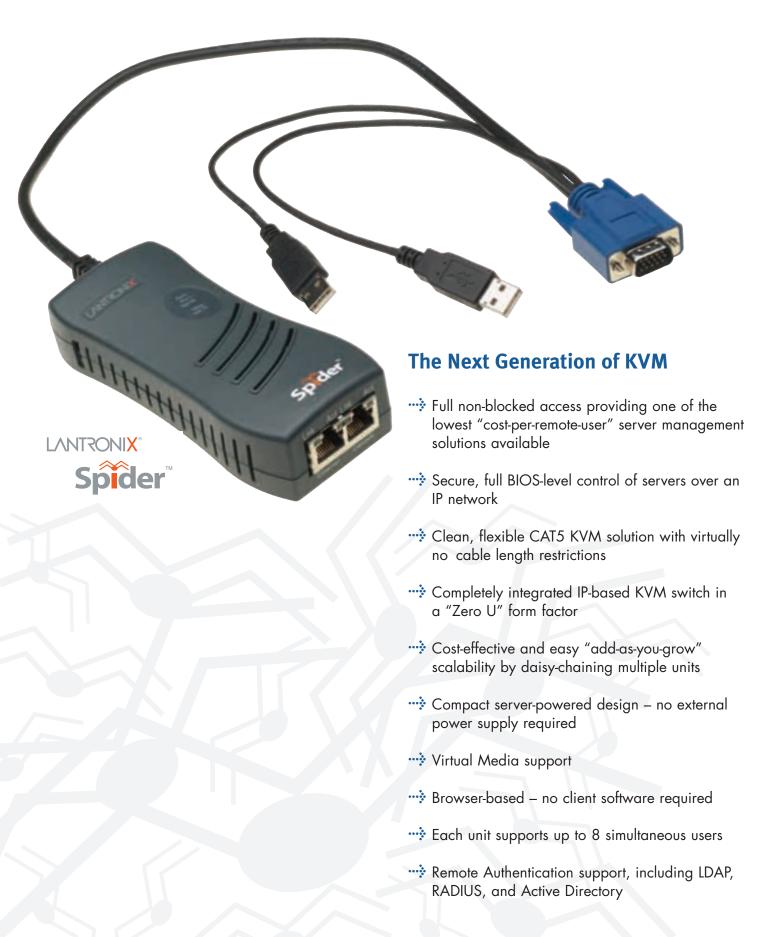
environments such as high-density data centers, corporate or university campuses, multi-floor buildings, branch offices, and test and development labs.

Connected directly to the server, Spider guarantees non-blocked access from any web browser, anywhere, at any time! More cost-effective than traditional KVM, it provides one of the lowest "cost-per-remote-user" server management solutions available. And no client software or external power supply is required.

Amazingly scalable, Spiders can be easily daisy-chained together using Lantronix SwitchPort[™] integrated Ethernet switch technology. This provides an economical and highly flexible solution in environments where numerous cable drops and distance limitations can be a challenge when adding servers.



The Distributed KVM-over-IP Solution

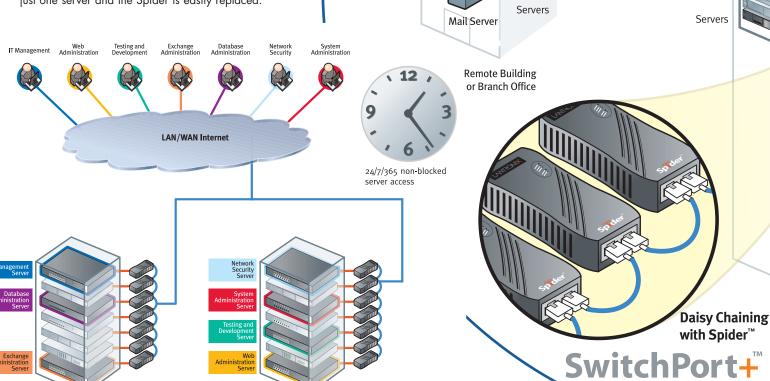


Distributed IT Environment

Fully Secure, Non-Blocked Remote Access

Lantronix Spider provides continuous availability to servers with 1:1 non-blocked access. This allows administrators to have guaranteed access to mission-critical servers, regardless of how many of them need remote access. In other words, administrators are not locked in to a fixed number of remote users. And adding more remote users is simple and cost effective – just add another Spider!

Additionally with Spider, you can add remote IP users one server port at a time, rather than adding another switch that provides costly, pre-defined multiples. And there is no single point of failure with Spider deployments. If a unit is disabled, you lose access to just one server and the Spider is easily replaced.



Remote User

File Server

LAN/WAN Internet

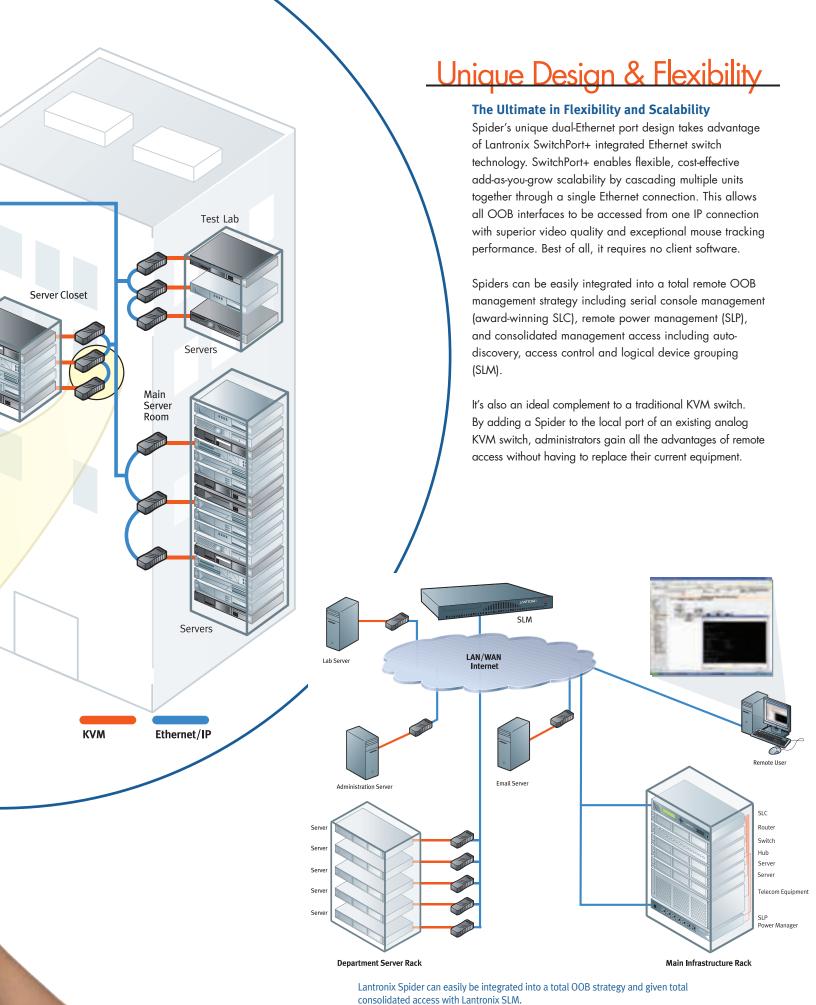
Small Size, Big Performance... and No External Power Required

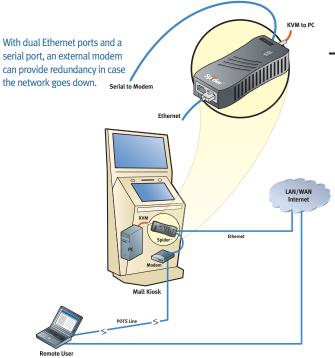
100's - 1000's of servers

This unique Lantronix innovation is a fully-integrated, digital IP-based KVM switch. And it has all the capabilities of a traditional KVM switch – all in a miniaturized, zero-footprint package! About the size of a small chalkboard eraser and weighing about 6 oz., Spider does not consume any valuable rack space and is light enough to be cable-supported from the back of a server.

Available in USB and PS2 models, the unique low-power design enables Spider to be powered directly from the attached server, with no external power supply required.*A redundant power supply option is available. (See order information table.)

*In cases where the target server can not supply enough power to Spider, or power is not persistent through reboots, the optional power supply may be required.





Lantronix Spider Applications

Lantronix Spider is designed primarily for managing missioncritical servers and equipment in a distributed environment.

- Campus environments (corporate and education)
- Branch offices
- ··· Remote sites
- ··· Isolated servers
- Distributed IT infrastructures (multi-floor, multi-building, multi-site)

- " In the laboratory: computer test labs, call centers, help desks, training rooms
- ··· Test and development
- Departmental IT
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- Disaster recovery sites
- **··**SMBs
- ··· Government facilities
- Dark data center facilities
- ··· Convention centers
- ··· Corporate offices
- ··· Kiosks
- ··· Factories
- Enterprise data centers

Powerful & Secure

All the Power You Need - In a Tiny Package

Spider features a powerful ARM based processor, on-board memory (Flash, Video and CPU SDRAM), secure operating system, web server and intelligent power management. It also includes a video encoder and embedded Ethernet switch with built-in support for Virtual Media. Spider integrates a serial interface and second Ethernet port, allowing hardware connections to all commonly used out-of-band management interfaces.

The internal processor provides data translation and packetizing so users may access any or all OOB interfaces via one Ethernet connection.

- Hardware-based compression algorithm ensures exceptional video performance and low bandwidth consumption
- VESA standard video support resolution up to 1280 x 1024 @ 60Hz
- Automatic video resolution detection with manual setting capability for support of non-standard video formats
- Exceptional mouse synchronization and video performance
- Serial data rates up to 115200 baud supports an external modem for out-of-band access

Software, Security and Management features

- Full BIOS-level control of the attached server
- Virtual Media Support
- RADIUS, LDAP and Active Directory remote authentication support
- · Secure encryption of keyboard, mouse, and video data
- User-definable groups with multilayer users and passwords
- Serial administration console port (RS-232) supports Telnet and SSH tunneling to a server COM port
- Event Log to NFS server, E-mail (SMTP), SNMP destination IP
- Firmware upgradeable via web browser
- User configurable hot keys
- Spider View optional Windows® client management utility included

Distributed KVM vs. High-Density KVM

High-Density KVM Solution Lantronix Spider 34 servers may require two 32-port KVMs or some combination that With Spider, you can add one port at a time. leaves unused ports, increasing the cost per port. If a 32-port KVM unit fails, all access to those connected servers is lost. If a unit is disabled you lose access to just one server; and Spider is easily replaced. Spiders can be cascaded or connected individually back to a switch. If access to all 32 servers is through a single Ethernet connection and the They can even be distributed among multiple switches so no single switch switch port fails, access to all 32 servers is lost. failure cuts you off from all your servers. Spider has the necessary HD-15 video, USB and PS/2 connections built in. Most high-density solutions require purchasing dongles to connect to managed servers, increasing cost. A typical high-density solution allows access to a limited number of Each Spider allows one or more people to connect to a server. managed servers at a time. (A high-end 32-port KVM may only allow as many as 8 servers to be accessed at once.) 32 Spiders means 32 simultaneous non-blocking connections - multiple users can access the attached server simultaneously! With Spider, there are virtually no cable limitations and image quality Most CAT5-based solutions are limited to 50 to 150 feet between the switch and server. And image quality degrades with distance. doesn't degrade with distance. Switch-based solutions may require separate KVM and serial dongles Spider is a completely integrated IP-based KVM switch that does not and/or external power supplies. require an external power supply.

Features – Lantronix Spider

Security

Secure encryption of keyboard, mouse and video data

IP Source Address Filtering

Remote Authentication: LDAP, RADIUS, Active Directory

User/Group management with permissions control

Configurable port numbers (HTTP, HTTPS, Telnet, SSH)

Selective disable of Telnet/SSH

Target Server Requirements

Supports Multiple Operating Systems: Windows 98/2000/2003/XP/

Vista, Unix, Linux, or MAC OSX 10

Power/keyboard/mouse: 2 USB ports; or 1 USB, 1 PS/2 keyboard,

and 1 PS/2 mouse connector

Video Interface: HD15 VGA video output (up to 1600x1200@60Hz)

Client System Requirements

Internet Explorer 6.0+, Netscape 5.0+, Mozilla 1.0+, Firefox 1.0+, Safari 2.0+

PIII Processor equivalent or better (recommended)

Sun Java 2 Runtime Environment

Telnet/SSH client for command line (CLI) access

Interfaces

Network: One 10/100Base-T Ethernet Port with activity indicators (RJ45)

Cascade: One 10/100Base-T Ethernet Port with activity indicators (RJ45)

Serial: RS-232, up to 115,200 bps

Keyboard/Mouse: PS/2 or USB

Video: HD15 VGA

Environmental

Operating: 0° to 45° C (32° to 115° F) Storage: -20° to 70° C (-4° to 158° F)

Humidity: 0 to 95% RH (non-condensing) Heat Dissipation: 4 Watts (14 BTU/hr)

Power Requirements

Input: 5 VDC @ .8A max. (server powered)

Optional Auxiliary DC power supply available for redundancy (p/n:520-085-R)

Certifications

UL/CUL (CSA-22.2 No. 60950-1-03 / UL-60950-1)

CE - IEC 60950-1

C-Tick

FCC Part 15, Equipment Class A

VCCI V-3/2006.04 Class A

AS/NZS CISPR 22: 2006 Class A

EN55022:1998 +A1:2000 +A2:2003 Class A

EN61000-3-2: 2000 +A2: 2005 Class A

EN61000-3-3:1995 +A1:2001

EN55024: 1998 +A1:2001 +A2:2003

RoHS Compliant (lead free)

Warranty

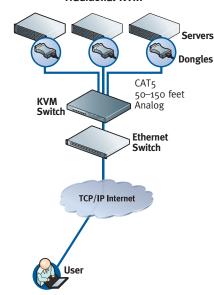
2 year limited warranty

Physical

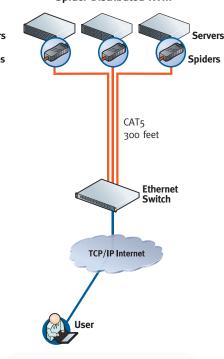
Spider Unit Dimensions: (H x W x D) **13.2** x **5.8** x **3.1** cm (5.2 x 2.3 x 1.2 in)

Weight: 185g (6.6 oz) Shipping Weight: .5 kg (1.0 lbs)

Traditional KVM



Spider Distributed KVM



Spider options:



58" inch cable option perfect for cable management arms.



Mounting Bracket Kit





30 cm (11.8 in)





Part Number	Description
SLS200USB0-01	1 Port Remote KVM-over-IP with USB Connectors; 21" VGA cable
SLS200PS20-01	1 Port Remote KVM-over-IP with PS/2 and USB Connectors; 21" VGA cable
SLS200USBx0-01	1 Port Remote KVM-over-IP with USB Connectors; 58" VGA cable
SLS200PS2x0-01	1 Port Remote KVM-over-IP with PS/2 and USB Connectors; 58" VGA cable
520-085-R	Optional DC Power Supply with International Adapters
	(100-240VAC, 50-60 Hz; 5 VDC @ 1A; USB "mini-B" type jack)
083-015-R	Replacement Mounting Bracket Kit



As a worldwide leader in secure remote management, Lantronix data center solutions are trusted by Fortune 100 businesses in virtually every sector, the top telcos and leading financial institutions. With the highest levels of security for out-of-band access, our robust product offering can help ensure that if your data center goes down, you can still reach and repair your equipment, no matter where you are.

Visit lantronix.com or call our sales support team at (800) 422-7055 to schedule a demonstration and find out how quickly and easily Lantronix can add an unprecedented level of reliability to your business-critical equipment.

lantronix.com

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