LANTRONIX®

Secure Console Server

- ▶ **Mission-critical systems management via a serial console**
- ▶ **Secure Shell v2 (SSHv2) ensures integrity of data across less secure channels**
- ▶ **Radius, LDAP and NIS support for enterprise deployment**
- ▶ **Console port buffering allows quick root cause analysis of system faults**
- ▶ **Solaris Ready and "Break Safe"**
- ▶ **Quick and easy setup through the front panel keypad and setup wizards**
- ▶ **Dual input, redundant AC or DC power supplies**
- ▶ **NEBS Level 3 compliant**

Remotely Monitor and Manage Servers and Networking Equipment

The SCS820 and SCS1620 are members of the ActiveLinx™ family of secure console servers (SCS). With ActiveLinx secure console servers, system administrators can tackle local and remote IT incidents in record time. IT professionals gain key business advantages such as reduced time attending problems and lowered total cost of ownership for equipment and maintenance. Secure console servers provide a significant return on investment with faster problem solving capabilities and higher uptime.

Leveraging the console or emergency management port built into most servers, networking, and communication equipment, ActiveLinx secure console servers provide familiar tools such as Telnet and SSH to remotely manage the performance and availability of critical business information systems. Direct port access is available by specifying an IP address and port number, or each port can be selected by a separate IP address. Console ports are also accessible through the console server's command line interface.

The SCS820 and SCS1620 console servers feature a front panel keypad and display, for configuring network settings and other related parameters. A web-based GUI is available for those preferring to manage the unit through a browser. And most of the features offered by the ActiveLinx console servers can be configured in a matter of minutes.

Fault-Tolerant Console Access

The SCS820 and SCS1620 are key components of any systems management framework. Each unit is equipped with dual-input power supplies providing protection from inevitable system failure. The SCS820 and SCS1620 are ideal for managing mission-critical systems such as servers, storage area network components, and other network infrastructure for government, financial, emergency, and business institutions. They are also NEBS Level 3 compliant and available with DC power supplies.

Layered Security is Key

Anyone who gains access to the console port of servers and routers can potentially take control of the entire network. So, layered security is key to ensuring the integrity of the user-names and passwords of those that get access to your critical information and data. The SCS820 and SCS1620 support several user authentication methods and data encryption.

User authentication limits access to IT systems to authorized users only. RADIUS, LDAP and NIS methods for user authentication are supported in addition to a local user database. Access to attached equipment may be further restricted using port-based user permissions. SSH (v2) provides robust authentication and encryption for communication over insecure channels. Unused services can be disabled or completely removed from the system providing a highly secure platform for remote administration.

A built-in firewall can be used to minimize the visibility of the secure console servers to network port scanning by rejecting or denying connection attempts.

Port Buffering Speeds Recovery

Port buffering helps locate the source of equipment problems and diagnose them quickly. Each console port can be independently configured to buffer console messages from attached equipment. Administrators can then review the stored console messages to quickly isolate problems reducing system downtime.

Features

Accessibility
In-Band (Ethernet)
Out-of-Band (local terminal port or modem)
Optional modem supports PPP, PAP, CHAP, Call back

Security
Secure Shell (SSH v1 and v2)
Packet filtering (firewall)
Per port user permissions
System event logs

Authentication
LDAP
NIS
RADIUS
Local user database

Console (Port) Access
Telnet/SSH to console server command line
Multiple concurrent Telnet/SSH sessions (128 max.)
Simultaneous access on the same port (listen mode)
No inadvertent "breaks" – Sun break-safe
Telnet (IP address and port number)
Telnet (separate IP address per port)

Data Capture and Notification
256 KB FIFO audit trail per port
Email notification
Event logging (syslog, NFS)

Management
Front panel keypad/display for network setup
Setup wizard for quick and easy configuration
Command line interface (Telnet, SSH or direct serial)
Web configuration interface (HTTPS)
Configuration save and upload via FTP or TFTP
Firmware upgrade via FTP or TFTP

Additional Protocols Supported
DHCP for dynamic IP address assignment
NTP for time synchronization
FTP, SCP, SFTP client and server for file transfers and
   firmware upgrades

Hardware

Interfaces
Network: 10Base-T/100Base-TX (RJ45), half/full duplex
Devices: RS-232 (RJ45), 2400 to 115,200 bps
Console: RS-232 (RJ45), 2400 to 115,200 bps
Power Manager: RS-232 (DB9F), 2400 to 115,200 bps
Analog Modem (Optional): RJ11, 38.4 Kbps

Operating System
Embedded Linux

CPU/Memory
AMD SC520 133 MHz, 128 MB RAM, 128 MB Flash

Power Requirements
AC input: 100 to 240 VAC, 50/60 Hz, 25W max.
DC input: -48 VDC, 5A max.

Environmental
Operating: 0 to 50 °C (32 to 122 °F), 30 to 90 %RH, non-condensing
Storage: -20 to 70 °C (-4 to 158 °F), 10 to 90 %RH, non-condensing
Heat Flow Rate: 75 BTU/hr.

Physical
Dimensions (HxWxD)
  SCS820: 1U, 1.75 in x 17.25 in x 12.25 in (4.45 cm x 43.8 cm x 31.1 cm)
  SCS1620: 1U, 1.75 in x 17.25 in x 13.0 in (4.45 cm x 43.8 cm x 33.0 cm)
Weight
  SCS820: 4.8 kg (10.6 lbs)
  SCS1620: 5.0 kg (11 lbs)
Shipping Weight
  SCS820: 8.2 kg (18 lbs)
  SCS1620: 8.6 kg (19 lbs)

Certification
FCC Part 15 A, UL 1950, CE (EN55022 A, EN55024, EN60950), NEBS Level 3

Warranty
1-year limited warranty

Ordering Information

Part Number	Description
500.000.820B	Secure Console Server; 8 ports, 110-240 VAC power
500.048.820B	Secure Console Server; 8 ports, -48 VDC power
500.000.1620B	A Secure Console Server; 16 ports, 110-240 VAC power
500.048.1620B	Secure Console Server; 16 ports, -48 VDC power
500.000.0806	Modem module (analog, 38.4 Kbps)

Optional Cables/Adapters:

200.0066	Cable adapter; DB25M (DTE) to RJ45, Sun w/ DB25 male
200.0067	Cable adapter; DB25F (DTE) to RJ45, Sun w/ DB25 female and older HP9000's
200.0069	Cable adapter; DB9M (DTE) to RJ45, SGI Onyx
200.0070	Cable adapter; DB9F (DTE) to RJ45, HP9000, SGI Origin, IBM RS6000 and PC-based Unix/Linux servers
200.0225	Cable adapter; RJ45 to RJ45 rolled, Sun Netra and Cisco equipment
200.0062	Cable; RJ45, 2 m (6.6 ft)
200.0063	Cable; RJ45, 5 m (16.4 ft)
200.0064	Cable; RJ45, 10 m (32.8 ft)
200.0065	Cable; RJ45, 15 m (49.2 ft)
500.137	Cable; RJ45 – RJ45 rolled, 10ft

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