

SECURE CONSOLE SERVER

QUICK START GUIDE

SCS, SCS-R and Sentinel 32 Models

Standard Models:	
SCS80 & SCS80R:	8 Ports
SCS160 & SCS160R:	16 Ports
SCS320 & SCS320R:	32 Ports
SCS480 & SCS480R:	48 Ports
Sentinel 32:	32 Ports

All models are available with the following options:

- AC or DC power (SCSxx0 or SCSxx1)
- dual hot-swappable redundant Power Supplies (SCSxxxR)
- dual Console Port Interfaces – 1 DTE, 1 DCE (SCSxxx-D)
- 32-bit CardBus (SCSxxx-C)
- Modem (SCSxxx-M)



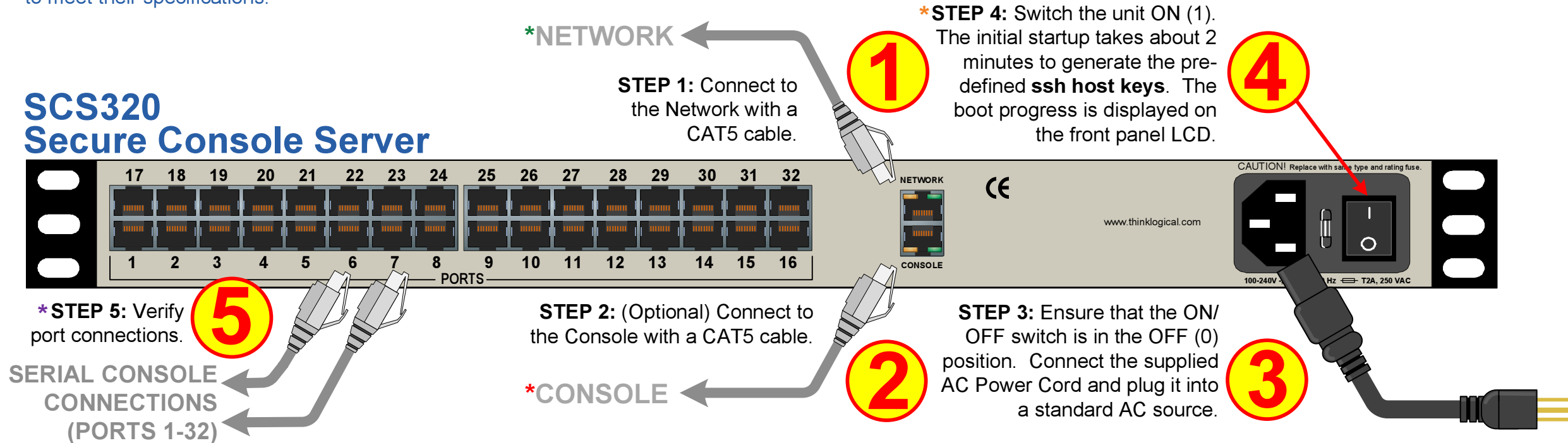
The core of **Thinklogical's™ Secure Console Server** is an x86-based computer running **GNU/Linux**. In addition, the SCS has built in technologies such as **4 GB Compact Flash Drive** and support for plug-compatible micro drives. Upon setup the SCS generates a unique set of **Secure Shell Host (SSH) keys**, a crucial security feature lacking in some traditional console servers. Also featured is a full distribution, non-embedded **Linux operating system**. The SCS is the only console server on the market that is able to integrate into existing system and configuration management software programs. This enables users to customize the capacity of the SCS, as well as its level of integration into their particular environment. In addition, users are able to match security technology to fit their processes while modifying and enhancing features to meet their specifications.



Contents (SCS AC):
Secure Console Server
Rack Mount Brackets
AC Power Cord (PWR-000006-R)
Adapter Kit (KIT-000001-R)
Adapter Kit (KIT-000003-R)
Users' Manual CD

Contents (SCS DC):
Secure Console Server
Rack Mount Brackets
Adapter Kit (KIT-000001-R)
Adapter Kit (KIT-000003-R)
Users' Manual CD

SCS320 Secure Console Server



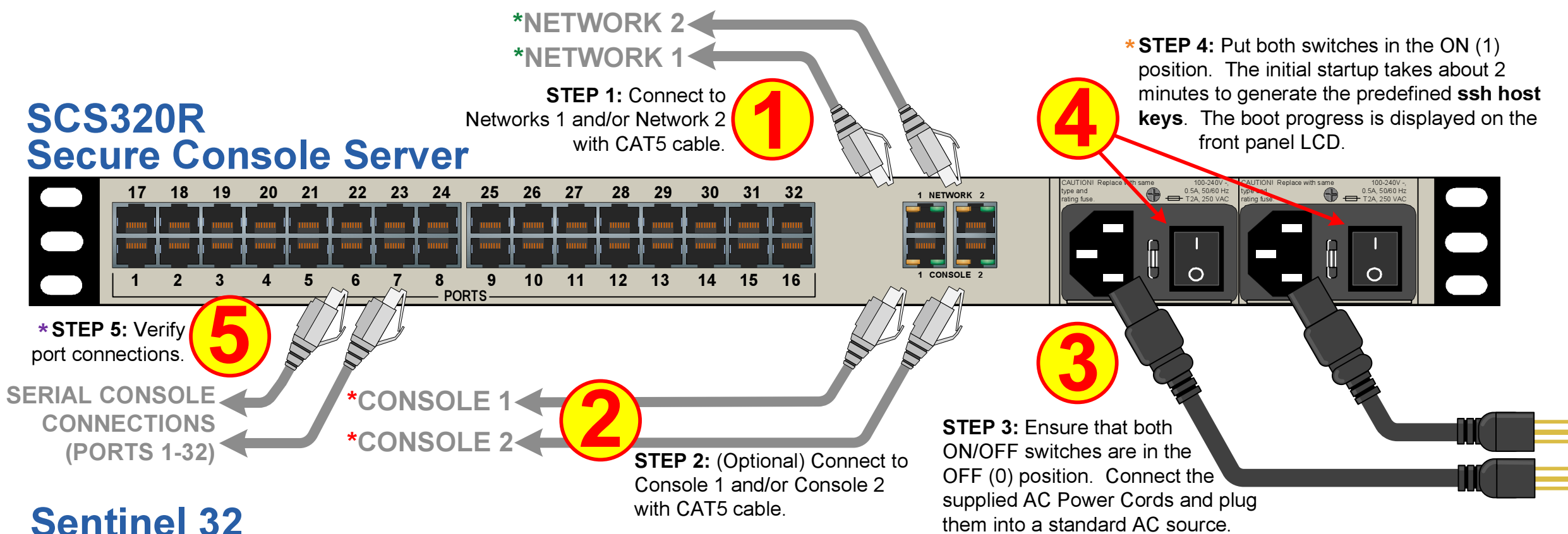
Thinklogical's™ SCS-R series of Secure Console Servers provides server and network management as well as secure console and integrated power management with enterprise-class security features. Unique to this line of console servers are the **redundant AC and DC power supplies** that function in a current sharing mode. The SCS-R power supplies are also **hot-swappable**, enabling users to remove a failed power supply while the unit is operating. In addition, users can access and control any combination of serial devices (servers, LAN/WAN devices, routers, workstations, etc.) through dual console and network ports.



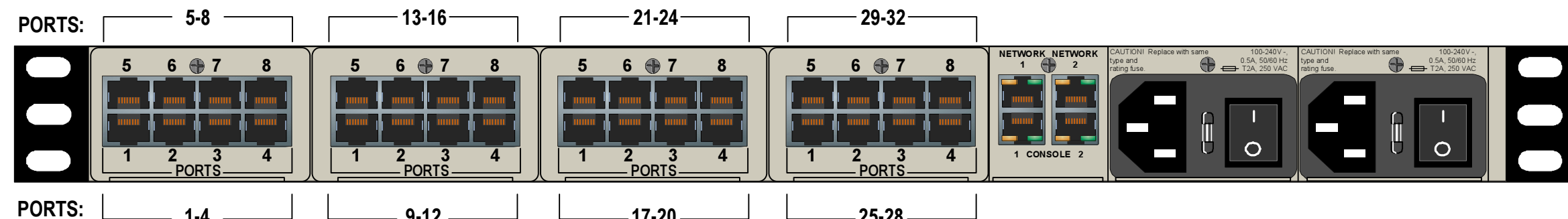
Contents (SCS-R & Sentinel AC):
Secure Console Server
Rack Mount Brackets
2 AC Power Cords (PWR-000006-R)
AC 'Y' Power Cord (PWR-000008-R)
Adapter Kit (KIT-000001-R)
Adapter Kit (KIT-000003-R)
Users' Manual CD

Contents (SCS-R & Sentinel -48VDC):
Secure Console Server
Rack Mount Brackets
Adapter Kit (KIT-000001-R)
Adapter Kit (KIT-000003-R)
Users' Manual CD

SCS320R Secure Console Server



Sentinel 32



All of the Sentinel 32's hot-swappable modules are designed for easy field replacement. Replace serial ports in groups of 8 without affecting any of the other ports.



Setting Up Via the Network

1. Have the following Network addresses ready:
 - a. Your workstation/PC's IP address (If the SCS is using Dynamic Host Configuration Protocol (DHCP) addressing, nothing more is required.)
 - b. If assigning a static address to the SCS, the following are required: IP address, Network mask, Gateway address, Primary Domain Name System (DNS) server address.
2. Settings
 - a. Create a route from your workstation/PC to the SCS default IP address of 10.9.8.7
 - i. **Linux:** `route add -net 10.9.8.7 netmask 255.255.255.255 gw <PC IP address>`
 - ii. **Windows** command line: `route add 10.9.8.7 mask 255.255.255.255 <PC IP address>`
 - iii. **Solaris:** `route add -net 10.9.8.7 -netmask 255.255.255.255.0 <PC IP address>`
3. Run `timeconfig` if you are *not* in the Eastern Time Zone.
- * 4. Run `netconfig` to set the SCS network parameters for Network 1 (eth0). Network 2 is disabled. See on-line documentation to enable Network 2.
 - a. From a console connection run `service network restart`
 - b. From a SSH connection run `service network restart && exit` (You will then have to restart your SSH session.)
5. Use the `stty` command to change things like port names, baud rates, etc. These are temporary changes and will be lost at reboot. To make permanent changes, edit `/etc/rc.d/rc.serial`. This file contains a list of `stty` commands (one for each port). Further information is available in the User's Manual (CD provided).

Setting Up the Serial Console

1. Serial Console Settings= 9600, N, 8, 1
2. Login as `root`. The password is `root`.
 - * **Note:** Console Port 1 is in *Data Circuit-terminating Equipment (DCE)* mode. Console Port 2 is in *Data Terminal Equipment (DTE)* mode and is *not enabled for logins*. To use Console Port 2 the system administrator must enable it. Port 2 is activated by editing the `/etc/inittab` file.

*Testing Port Connections

The command `pm` can be used to verify device port connections. `pm --all` will test all ports and report the correct DTE/DCE settings.

*Using Secure Shell Host (SSH)

You must use SSH to connect to the SCS. From the command line, run the following: `ssh root@10.9.8.7`

Documentation

Thinklogical™ uses *Linux man* (short for manual) pages to document its software. The command `man 1 lsi` will list user commands. The command `man 8 lsi` will list the administrator commands and `man 5 lsi` will list the various configuration files. Individual command documentation can be accessed via `man XXX` where XXX is the command. **Examples:** `man ls`, `man tar`, `man lcd`, `man adduser`

User Commands

1. The commands `connect` and `monitor` allow the user to use a short version of the port names. You may use just the port number (1 through 48) or leave off `/lsi/ports/`
2. `Connect <portname or number>`
 - Examples:**
 - i. `connect 5`
 - ii. `connect port5`
 - iii. `connect /lsi/ports/port5`
 - iv. `connect /dev/tty/B5`
 - Note:** To exit `connect`, the default key sequence is 'Esc A'.
3. `Monitor <portname or number>`
 - Examples:**
 - i. `monitor 5`
 - ii. `monitor port5`
 - iii. `monitor /lsi/ports/port5`
 - iv. `monitor /dev/tty/B5`
4. Browsing the port buffers
 - Examples:**
 - i. `less /lsi/ports/buf_port5`
 - ii. `less /proc/port_buffers/5`
 - iii. `more </proc/port_buffers/7`
5. `Help` is available for all SCS commands via `man` pages. The command `man -a lsi` will bring up an overview of the SCS commands and files.
6. Several HOWTO's covering system setup and configuration can be found at `/usr/local/doc`

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