



**SecureLinx™ SLC Console Managers**



**SecureLinx™ SLC Console Managers Quick Start Guide**



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**SECURELINX™ SLC CONSOLE MANAGERS  
QUICK START CONTENTS**

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## SYSTEM OVERVIEW

SecureLinx Console Managers (SLC) enable IT professionals to remotely and securely administer servers and networking equipment.

Leveraging the console or emergency management port built into most servers and networking equipment, the SLC provides remote access anywhere, anytime. All that's required is an available console, AUX, or serial port (RS-232) on the attached equipment. Using in-band management, you can manage equipment over the network from virtually any place, using familiar tools like Telnet or Secure Shell (SSH). Out-of-band management provides access from a local terminal or through an optional PC card or external modem.

The number of RS-232 serial (device) ports included in the unit distinguishes the specific model. All models feature two 10Base-T/100Base-TX network connections (RJ45), two PC card slots, and a dedicated console port.

All models are compatible with a variety of equipment, including:

- Servers • Switches
- Routers • UPS systems
- PBX systems • Telecom switches

This Quick Start Guide explains the basics: how to connect and set up your unit so it will work on the network; how to set up local users; and how to access device ports. For more detailed information, refer to the User Guide on the CD-ROM supplied with this product or on the Lantronix website: [www.lantronix.com](http://www.lantronix.com)

## WHAT'S IN THE BOX

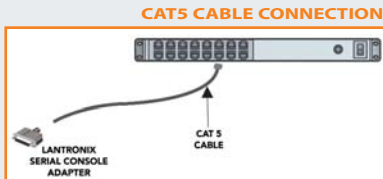
In addition to the SLC, the box contains the following items:

PART #	COMPONENT DESCRIPTION
<b>ADAPTERS:</b>	
200.2066A	Adapter: DB25M (DCE) to RJ45, Sun w/ DB25 female
200.2067A	Adapter: DB25F (DCE) to RJ45, Sun w/ DB25 male and some HP9000's
200.2069A	Adapter: DB9M (DCE) to RJ45, SGI Onyx
200.2070A	Adapter: DB9F (DCE) to RJ45, HP9000, SGI Origin, IBM RS6000, and PC-based Unix/Linux servers
200.2225	Adapter: RJ45 to RJ45 rolled, Cisco and Sun Netra
<b>CABLES:</b>	
200.0063	Cable: RJ45 to RJ45, 6.6 ft (2 m)
500-153	Cable: Loopback
<b>POWER CORDS:</b>	
500-041	For single AC models: one AC power cord For dual AC models: two AC power cords
083-011	For dual DC models: one accessory kit, each containing DC plug connectors and instructions
<b>Note:</b> An optional adapter for external modems is also available from Lantronix: 200.2073 Adapter: DB25M (DCE) to RJ45, external modems.	
<b>DOCUMENTATION:</b>	CD Case with Quick Start Guide and CD-ROM containing the SecureLinx Console Manager User Guide.

## CONNECTING THE SLC

The console port allows a dumb terminal or PC with terminal emulation software to locally access management functions and connected devices.

Device ports allow simple and flexible connections to serial devices using adapters and standard CAT5 cable. Connect one end of the CAT5 cable to the device port, and the other end to an adapter that attaches to the serial console of the target system.

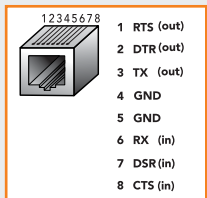


The default communication parameters for the device ports and the console port are:

- 9600 baud
- 8 data bits
- No parity
- 1 stop bit
- No flow control

For example, to connect a PC to the console port of the SLC, you only need the female DB9 adapter (Part # 200.2070A) and a standard CAT5 cable, both of which are supplied with your unit.

## CONSOLE PORT (RS-232) PIN ASSIGNMENTS



## INSTALLING THE SLC

1. Install the unit in a 19-inch rack.

**Warning:** Be careful not to block the air vents on the sides of the unit. If you mount it in an enclosed rack, we recommend that the rack have a ventilation fan.

## INSTALLING THE SLC CONTINUED

2. Connect equipment to the numbered device ports on the back of the unit using the appropriate cables and adapters.
3. Install any PC cards you intend to use (optional). If you install a modem card, connect to the phone line.
4. Connect the unit to the network through top of network port #1.
5. Connect the power cord and apply power.
6. Wait about a minute and a half for the boot process to end.

When the boot process ends, the SLC model name and the clock appear on the LCD display. Detected faults or process messages may also display.

## IP ADDRESSING

Both of the SLC network ports (Eth1 and Eth2) default to DHCP-assigned IP addresses. If you want to assign a different IP address, it must be within a valid range, unique to your network, and with the same subnet mask as your workstation.

To configure the SLC, you need the following information:

IP address (if not already assigned): \_\_\_\_\_ . \_\_\_\_\_ . \_\_\_\_\_ . \_\_\_\_\_

Subnet mask (if not already assigned): \_\_\_\_\_ . \_\_\_\_\_ . \_\_\_\_\_ . \_\_\_\_\_

Gateway: \_\_\_\_\_ . \_\_\_\_\_ . \_\_\_\_\_ . \_\_\_\_\_

DNS: \_\_\_\_\_ . \_\_\_\_\_ . \_\_\_\_\_ . \_\_\_\_\_

## CONFIGURING NETWORK (IP) SETTINGS

The fastest way to set basic network parameters is by using the front panel keypad and display.

**Note:** If you prefer, you can get started by following a Quick Setup script on the command line interface using Telnet or SSH, or by connecting a terminal directly to the console (RS-232) port. The web page interface also provides a Quick Setup page. See *Quick Setup* in the User Guide for instructions.

- Use the **right** and **left arrow** buttons to navigate from one option to another.
- Use the **up** and **down arrow** buttons to navigate between parameters within an option or to increase or decrease a numerical value.
- Use the **Enter** button in the center to enter or exit editing mode and to save changes.

**Note:** If no buttons are pressed for 30 seconds, the front panel display times out without accepting unsaved changes and returns to displaying the hostname and clock.

**For example, to change the IP settings:**

1. Press the **right arrow** button to display the **Network Settings** option and the current IP address.
2. Press the **Enter** button to go into editing mode.
3. Use the **up** and **down arrow** buttons to increment or decrement the IP address indicated by the cursor.
4. Use the **right** and **left arrow** buttons to move to and change the remaining digits of the IP address. Press the **Enter** button to exit editing mode when finished.
5. Press the **down arrow** button to display the **Subnet Mask** setting.
6. Edit the **Subnet Mask** in the same fashion as the IP address and press the **down arrow**.
7. Edit the **Gateway** and **DNS** settings.
8. Press the **down arrow** after the **DNS 3** setting to go to the **Save settings? Yes/No** prompt.



## CONFIGURING NETWORK (IP) SETTINGS CONTINUED

9. Select **Yes** at the prompt and press **Enter** to save changes.

Repeat steps 1-8 for the other options (console port and date/time).

**Note:** Another option, release, is for restoring factory defaults. The default password for this action is 999999.

After you save the values for your console manager, changes take effect immediately.

## LOGGING IN TO THE SLC WEB PAGE

This section includes instructions for accessing both the web page and the command line interfaces. You can use either method to configure all parameters.

**To log in to the SLC web page:**

1. Open a web browser (Netscape 8.1 Navigator and later or Internet 6.0 Explorer and later).
2. In the URL field, type **https://** followed by the IP address of your SLC.
3. At the first login, enter **sysadmin** (all lower case) as the user and **PASS** (all upper case), the default factory password.

The first time you log in, the SLC Quick Setup page displays.

Subsequent logins display the SLC Home Page. (To display Quick Setup again, select it from the main menu.)



## LOGGING IN TO THE SLC WEB PAGE CONTINUED

- Do one of the following:
  - To bypass the Quick Setup page and go directly to configuring the SLC, click the **Accept default Quick Setup settings** checkbox and click **Apply**.
  - Update basic network parameters, if desired, and click **Apply**.

## LOGGING IN TO THE COMMAND LINE INTERFACE

### To access the command line interface

- Do one of the following:
  - With a network connection, use a Telnet or SSH program to Telnet or SSH to **xx.xx.xx.xx** (the IP address in dot quad notation), and press **Enter**. You should be at the login prompt. **Note:** By default, Telnet is disabled. To enable Telnet, use the Services web page, a serial terminal connection, or an SSH connection
  - With a serial terminal connection, when the command line displays, press **Enter**.
- Enter **sysadmin** as the user name and press **Enter**.
- Enter **PASS** as the password and press **Enter**. The first time you log in, the Quick Setup script opens automatically. Subsequent logins display the command prompt only. (To obtain the Quick Setup script again, use the `admin quicksetup` command.)  
**Note:** Change the default password as soon as possible to prevent access by unauthorized personnel. Subsequent logins require the username **sysadmin** and the appropriate password to log in as system administrator.
- If the Quick Setup script displays, update basic network parameters, as desired. Otherwise, just press **Enter** until the command prompt displays. By pressing **Enter**, you are accepting the current settings.

### Notes:

- For general command line interface help, type `help` command line.
- For help with a specific command, type `help` followed by the command, for example, `help set network` or `help admin firmware`.

## ADDING USERS

The system administrator can create local accounts to authenticate users who attempt to log in via SSH, Telnet, or the console port.

### To add a user by means of the web interface:

- From the main menu, select **User Authentication — Local Users**. The following page displays.

The screenshot shows the LANTRONIX SLC16 web interface. The main content area is titled "User Authentication - Local Users". It contains several configuration options:

- Enable Local Users:**  (Local accounts on the SLC can be used to authenticate users who login to the SLC via SSH, Telnet, the Web or the Console Port)
- Complex Passwords:**
- Login:**
- Listen Ports:**
- UID:**  (Note: The UID must be unique. If you do not specify a unique UID, it will be automatically incremented.)
- Data Ports:**
- Password:**
- Clear Port Buffers:**
- Repeat Password:**
- Escape Sequence:**
- Enable for Dial-back:**
- Break Sequence:**
- Dial-back Number:**
- Custom Menu:**
- User Rights:** [Settings](#)

Buttons: [Add/Edit User](#) (To edit or delete a user, select the radio button in the right column below.) and [Delete User](#).

Local Users								
Login	UID	Listen Ports	Data Ports	Clear Port Buffers	Esc Seq	Brk Seq	Custom Menu	Dial back
sysadmin	0	1-16	1-16	1-16	\r\bA	\r\bB		No
test1	101	1-16	1-16	1-16	\r\bA	\r\bB		No
test	102	1-16	1-16	1-16	\r\bA	\r\bB		No

[Apply](#)

## ADDING USERS CONTINUED...

2. Enter the following:

- Enable Local Users** Select to enable all local users except sysadmin. The sysadmin is always available regardless of how you set the check box.
- Complex Passwords** Select to enable the SLC to enforce rules concerning the password structure (e.g., alphanumeric requirements, number of characters, punctuation marks). Disabled by default.  
**Complexity rules:**
- Passwords must be at least eight characters long.
  - They must contain one upper case letter (A-Z), one lower case letter (a-z), one digit (0-9), and one punctuation character ( () `~!@#%&'^\*&\*-+=\{}|;":'<>.,?/\_).
- Login** The name the user enters to log in to the SLC. May have up to 32 alphanumeric characters.
- UID** A unique numeric identifier the system administrator assigns to each user. Valid UIDs are 101-4294967295.  
**Note:** *The UID must be unique. If it is not, SLC automatically increments it. Starting at 101, the SLC finds the next unused UID.*
- Password/ Retype Password** When a user logs into the SLC, the SLC prompts for a password (up to 64 characters). The sysadmin establishes that password here.
- Enable for Dial-back** Select to grant a local user dial-back access. Users with dial-back access can dial into the SLC and enter their login and password. Once the SLC authenticates them, the modem hangs up and dials them back. Disabled by default.

## ADDING USERS CONTINUED...

- Dial-back Number** The phone number the modem dials back on depends on this setting for the device port. The user is either dialed back on a fixed number (specified on the Device Port - Settings page), or on a number that is associated with the user's login (specified here).
3. Enter information about the specific functions the user will be permitted to access:
- Listen Ports** The device ports that the user may access to view data using the `connect listen` command. Enter the port numbers or the range of port numbers (for example, 1, 5, 8, 10-15).
- Data Ports** The device ports with which the user may interact using the `connect direct` command. Enter the port numbers or the range of port numbers.
- Clear Port Buffers** The device port buffers the users may clear using the `set locallog clear` command. Enter the port numbers or the range of port numbers.
- Escape Sequence** A series of one to ten characters that cause the SLC to leave direct (interactive) mode. (To leave listen mode, press any key.) A suggested value is **Esc+A** (escape key, then uppercase "A" performed quickly but not simultaneously). You would specify this value as `\x1bA`, which is hexadecimal (x) character 27 (**1B**) followed by an **A**.  
This setting allows the user to terminate the `connect direct` command on the command line interface when the endpoint of the command is `deviceport`, `tcp`, or `udp`.

## ADDING USERS CONTINUED

**Break Sequence** A series of one to ten characters users can enter on the command line interface to send a break signal to the external device. A suggested value is **Esc+B** (escape key, then uppercase "B" performed quickly but not simultaneously). You would specify this value as `\x1bB`, which is hexadecimal (\x) character 27 (**1B**) followed by a **B**.

**Custom Menu** If custom menus have been created, you can assign a default custom menu to the user. See the User Guide for information about creating custom menus.

4. Click the **Add/Edit User** button. The new user displays in the Local Users list below.

5. Click **Apply**.

### To add a user by means of the command line:

The following commands correspond to the web page entries described above:

```
set localusers add|edit <User Login> <parameters>
```

Parameters:

```
allowdialback <enable|disable>  
breakseq <1-10 Chars>  
clearports <Port List>  
custommenu <Menu Name>  
dataports <Port List>  
dialbacknumber <Phone Number>  
escapeseq <1-10 Chars>  
group <default|power|admin|>  
listenports <Port List>  
permissions <Permission List>
```

```
uid <User Identifier>
```

## ACCESSING PORTS

While you can configure connections using the web interface or the command line, you can access the ports using the command line only.

### To interact with an attached device:

Telnet or SSH to the SLC and enter the `connect direct` or `connect listen` command. For example:

- To directly interact with the system connected to port 4, you would type `connect direct deviceport 4`
- To listen to port 4, type `connect listen deviceport 4`

**Note:** You may also reference ports by a user-defined name. Please see the User Guide for more information.

### To disconnect from a port:

Perform an Escape using the programmed escape sequence (default ESCA).

## CONTACT INFORMATION

For questions and technical support, please check our online knowledge base at [www.lantronix.com/support](http://www.lantronix.com/support)

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