

Setup for Linksys SRW224P POE Switch

The switch can be configured via either serial or web connections. Switches shipped from the factory with a 10.101 . . . address labeled on them should already be configured from the factory. If a unit must be reconfigured, settings for IP Address, Spanning Tree, and IGMP need adjustment for ETCNet2 and Net3 compatibility. The last two settings are only available via the web interface. However, a forgotten IP or custom password for the switch, makes the linksys serial cable necessary to reset the switch to linksys factory defaults. Restoring defaults and serial cable configuration are covered later in this document.

For an unconfigured switch set to linksys factory defaults, the computer's IP must be within the subnetwork of the switch. Before changing any network settings on a personal computer, write down if *Obtain an IP address automatically* is selected, or, if *Use the following IP address* is selected, record the current settings below to be restored later.

IP Address	____.____.____.____
Subnet Mask	____.____.____.____
Default Gateway	____.____.____.____

To use a personal computer to configure a switch that is in linksys factory default configuration and does not use a network router (i.e. hub and/or switch only), ETC recommends the following settings:

IP Address	192.168.1.250
Subnet Mask	255.255.255.0
Gateway IP	192.168.1.250

Setting up Switch

- Step 1: Connect the configuration PC to the switch via one of the 24 ports on the front
- Step 2: Open a web browser (for example Internet Explorer)
- Step 3: Point the browser to the default IP address of the switch (192.168.1.254)
- Step 4: The login screen for the switch's management interface will pop-up
 - a: For username type the word **admin** (case sensitive)
 - b: Leaving the password field blank press [ENTER]

Disable Spanning Tree

- Step 5: Click on the tab named [SPANNING TREE]
 - a: Click on [PORT CONF]
 - b: Locate the *Spanning Tree* column
 - c: Uncheck all of the "Enabled" boxes in that column
 - d: Click [SUBMIT] at the bottom of the page

Disable IGMP

- Step 6: Click on the tab named [IGMP]
 - a: Click on [IGMP CONF]
 - b: Locate *IGMP Status* and *Act as IGMP Querier*. Uncheck both of the "Enabled" boxes
 - c: Click [SUBMIT] at the bottom of the page

Changing the default IP address

- Step 7: Click on the tab named [IP CONF]
 - a: Change the IP address from 192.168.1.254 to an IP address on the ETC logical network. A typical ETCNet2 switch on a non-routed network would be addressed to 10.101.X.1 (X can be any number from 2-254) If configuring more than one switch, be sure to choose a different IP for each.

- b: Set *Mask* to 255.255.0.0 for a typical Net2 system, or the appropriate subnet mask on a routed network.
- c: On a typical non-routed network, also set *Gateway* to the switch's IP address.
- d: Click [SUBMIT] near the bottom of the page.

Configure Your Computer for an ETCNet™2 Network

To use a personal computer on an ETCNet2 network that does not use a network router (i.e. hub and/or switch only), ETC recommends the following default settings:

IP Address	10.101.1.101
Subnet Mask	255.255.0.0
Gateway IP	10.101.1.101

Each additional computer on an ETCNet2 network must have its own IP address which must be different from any other computer on the same ETCNet2 network. Select additional IPs in the default range of 10.101.1.102 thru 10.101.1.249

Note: *On a network that includes a network router, set the Gateway IP address to the appropriate port on the router.*

Resetting Linksys SRW224P Factory Defaults

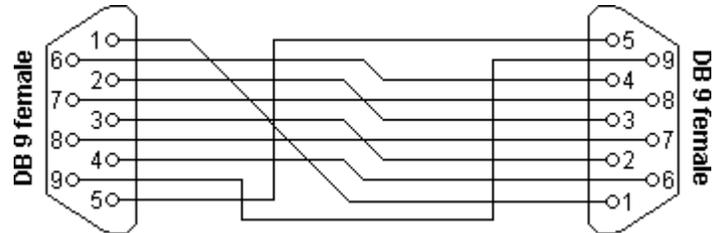
Follow these steps to restore default password & IP addressing to recover the applicable Linksys switches. Physical access to the switch is required, in order to connect the serial cable.

- Step 1: Connect the Linksys serial cable (from switch carton) between the switch serial port and a nearby computer serial port. For Windows, use HyperTerminal to connect.
- Step 2: The switch default serial port configuration is 38400 baud, 8 data bits, no parity, 1 stop bit, no flow control.
- Step 3: Confirm that you have a valid serial connection by pressing enter a few times. You should be prompted with a login screen.
- Step 4: If you have successfully established serial communication with the switch, reboot the switch by disconnecting and then reconnecting its power cable.
- Step 5: Hold down Ctrl U while the switch boots. After Power On Self Test (POST), a menu of several files will be displayed.
- Step 6: Select> [D] to Delete file.
- Step 7: Type startup-config (be sure that this is the ONLY file that you delete – if you delete other files, you will have to reload the firmware)! Confirm the deletion of file by typing [Y] then [ENTER]
- Step 8: Select> [Q] to Quit and continue to boot the switch.

Now, you have erased the configuration file and you should be able to reboot and login with the default username and password.

- a: For username type the word **admin** (case sensitive).
- b: Leaving the password field blank press [ENTER].

The Linksys serial cable is not a standard cable. It is Female DB9 to Female DB9. Pinout is as follows:



Connector 1	Connector 2	Function
1	1	Signal Ground
2	3	Rx ← Tx
3	2	Tx → Rx
4	6	DTR → DSR
5	5	Signal Ground
6	4	DSR ← DTR
7	8	RTS → CTS
8	7	CTS ← RTS
9	9	Signal Ground