



Quick Start Guide



Cisco Small Business Pro ESW 500 Series Switches

Package Contents

- ESW 500 Series Switch
- Power Cord
- Mounting Hardware
- Rubber Feet for Desktop Mounting
- Serial Cable
- Quick Start Guide
- ESW 500 Series CD

1 Before You Begin

This guide is designed to familiarize you with the general layout of the switches, and how to begin installing them in a standard configuration. Your particular switch model may not have all of the features or functionality described in this guide. For more detailed information on the individual switches, see the *ESW 500 Series Administration Guide*.

Switch Location Considerations

The switch can be placed on a desktop or mounted in a rack. If you choose the desktop option, install the four rubber feet (included) on the bottom of the switch.

CAUTION Wall-Mounting the switch is discouraged due to the size and weight of the device.

Rack Mount Installation Tips

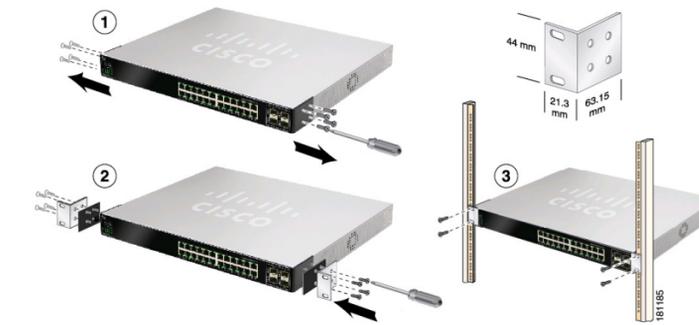
- **Ambient Temperature**—To prevent the switch from overheating, do not operate the switch in an area that exceeds an ambient temperature of 104 degrees (40 C).
- **Size**—The switch can be mounted in any standard size, 19-inch wide rack. Each Switch requires 1RU of space.
- **Reduced Air Flow**—If you install the switch in a rack, be sure that there is adequate air flow as required.
- **Mechanical Loading**—Be sure that the switch is level and stable when you mount the switch in a rack to avoid any hazardous condition.
- **Circuit Overloading**—Do not overload the power outlet or circuit when installing multiple devices in a rack.
- **Reliable Grounding**—Be sure that the switch is grounded and uses suitable electrical supply connections.

To use the rack-mount option, follow these instructions:

STEP 1 Remove the four screws from each side of the front of the switch. Retain the screws for re-installation. Do not remove the four screws from each side of the back of the switch.

STEP 2 Place one of the supplied spacers on the side of the switch so the four holes align to the screw holes. Place a rack mount bracket next to the spacer and reinstall the four screws removed in step 1.

NOTE If your screws are not long enough to reattach the bracket with the spacer in place, attach the bracket directly to the case without the spacer.

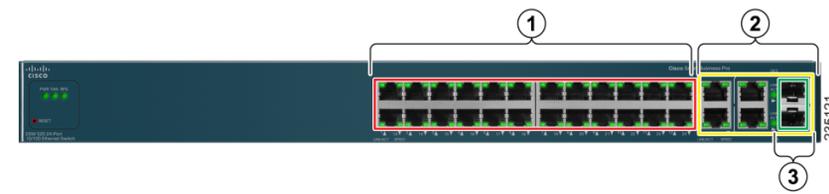


STEP 3 After the mounting hardware has been securely attached, the switch is now ready to be installed into a standard 19-inch rack as shown.

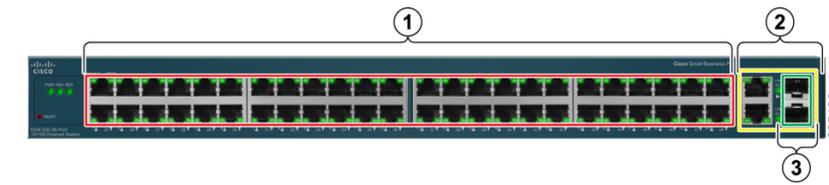
Switch Ports and LEDs

The LEDs and network ports are located on the front panel of the switch. Refer to the following four front panel diagrams, as well as the Port Descriptions table, for details on port functionality.

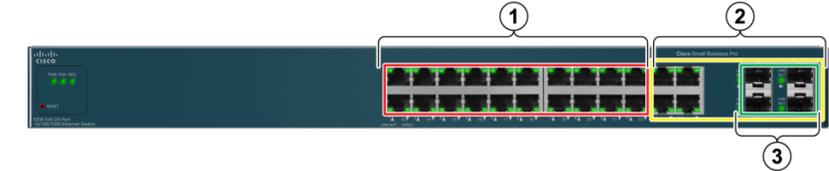
Switch Ports



ESW-520-24 Ports



ESW-520-48 Ports



ESW-540-24 Ports



ESW-540-48 Ports

Port Descriptions

#	Port	Description
1	Switch Ports	The switch is equipped with auto-sensing, Ethernet (802.3) network ports which use RJ-45 connectors. The Ethernet ports support network speeds of 10 Mbps, 100 Mbps, or 1000 Mbps. They can operate in half and full-duplex modes. Auto-sensing technology enables each port to automatically detect the speed of the device connected to it, and adjust its speed and duplex accordingly. These ports are typically used for devices such as PCs, servers, IP phones and Access Points, and are highlighted RED in the examples.
2	Uplink Ports	These ports are typically used for connecting to other switches, routers, or network backbone devices, and are highlighted in YELLOW in the examples. The mini-GBIC ports are considered uplink ports.
3	mini-GBIC Ports	The mini-GBIC (Gigabit Interface Converter) port is a connection point for a mini-GBIC expansion module, allowing the switch to be uplinked via fiber to another switch. Each mini-GBIC port provides a link to a high-speed network segment or individual workstation at speeds of up to 1000 Mbps. The mini-GBIC ports are highlighted in GREEN in the examples.

Port LEDs

LINK/ACT—Each green LED lights up when a connection is made through its corresponding port. It flashes when the corresponding port is active.

SPEED—On non-PoE switches, a green LED indicates that the port is operating at the maximum speed for that model of switch (fast ethernet or gigabit ethernet).

PoE—On PoE switches, a green LED indicates that PoE is active on that port. The switch can deliver a maximum of 15.4W to a PoE port. See the *ESW 500 Series Administration Guide* for platform PoE power limitations.

Switch LEDs

PWR—A green LED lights up and remains lit when the switch is powered on.

FAN—A green FAN LED lights up to indicate that the cooling fan is operating properly. A blinking red FAN LED indicates that the cooling fan has failed.

RPS—A green RPS LED lights up to indicate that RPS is connected and operating properly. A blinking red RPS LED indicates an RPS fault.

2 Getting Started with the Configuration

This section contains information for starting the *Switch Configuration Utility* to provision the switch features. There are four different options to connect to the switch and three to launch the *Switch Configuration Utility*. They are:

- Using the default static IP address of the switch
- Using Cisco Configuration Assistant (CCA)
- Using a dynamic IP address allocated to the switch via DHCP (from DHCP server) This option is considered to be plug and play.
- Using the Console (this does not launch the Switch Configuration Utility and is recommended for advanced users only)

This guide discusses two different options; using the static IP address procedure when the switch is deployed as a standalone device, or using CCA when the switch is deployed in a Cisco Smart Business Communication Systems (SBCS) network with a UC520 or SR520.

The other options are described in detail in the "Getting Started" section of the *ESW 500 Series Administration Guide*.

Configuring the Switch with a Static IP Address

To install the switch:

STEP 1 Make sure there are no devices connected to the switch and that the switch is not connected to the network. Power up the switch by plugging in the power cord.



NOTE

If the switch was previously connected to the network, it may have obtained an IP address from a DHCP server. To perform a static IP address installation, disconnect all devices and remove the switch from the network. Then perform a power cycle of the switch by unplugging the power cable, waiting 5 seconds, and plugging it back in.

STEP 2 Connect a PC to switch port 1 with an Ethernet cable.

STEP 3 Make note of your PCs current IP address settings, and record them for future use.

STEP 4 Place the PC on the same subnet of the switch by configuring the PC with the following parameters:

- **Static IP address** — 192.168.10.11
- **Subnet mask** — 255.255.255.0
- **Default gateway** — 192.168.10.2

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NOTE

Details on how to change the IP address on your PC depend upon the type of architecture and operating system you are using. Use your PCs local Help and Support functionality and search for “IP Addressing”.

STEP 5 Open a web browser. Cisco recommends Internet Explorer version 7 or higher, or FireFox version 3. If you are prompted to install Active-X plugin when connecting to the switch, follow the prompts to accept the plugin.

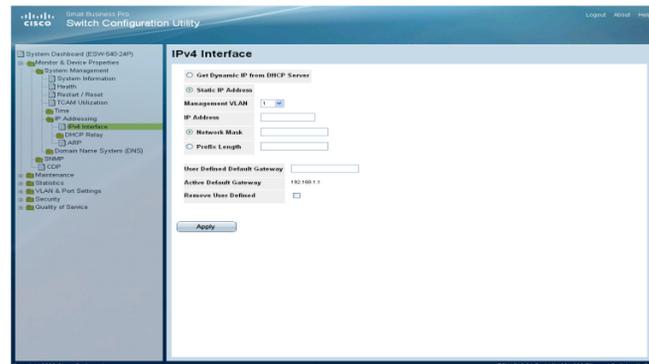
STEP 6 Enter <http://192.168.10.2> in the address bar and press **Enter**. The *Login Page* opens.

STEP 7 Enter a user name and password. The default user name is *cisco* and the default password is *cisco*. Passwords are both case sensitive and alpha-numeric.

STEP 8 Click **Login**. The *Switch Configuration Utility System Dashboard Window* appears.



STEP 9 Click **Monitor & Device Properties > System Management > IP Addressing > IPv4 interface**. The *IPv4 Interface* window appears.



Change the static management IP address from 192.168.10.2 to an IP address that matches the IP addressing subnet in the network that the ESW500 switch will be deployed.



NOTE

It is expected that the IP address to be assigned to the switch is known prior to installation, based on the network topology.

STEP 10 Select the **Static IP Address** radio button and enter an IP address, Network Mask, and User-defined Default Gateway that matches the IP addressing subnet in the network that the ESW500 switch will be deployed. Click **Apply**.



NOTE

The PC will lose the connection to the switch at this point.

STEP 11 Reconfigure the PC back to its original IP address configuration.

Configuring the Switch Using Cisco Configuration Assistant (CCA)



TIP

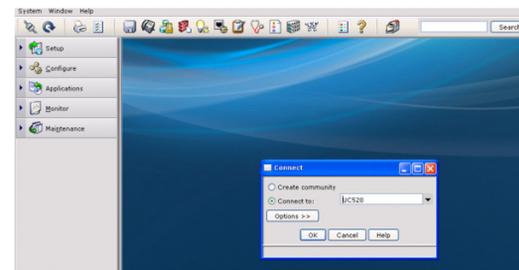
Use CCA to configure the switch when it is deployed in a Cisco Smart Business Communications System (SBCS) network with a UC520 or SR520. The configuration is more plug and play in this environment, and assumes you are familiar with CCA.

To install the switch:

STEP 1 Power on the ESW 500 series switch, and connect one of the designated uplink ports on the switch to the expansion port on the UC520 or one of the switch ports on the SR520

STEP 2 Connect the PC with CCA 1.9 or higher installed to any access switch port on the ESW 500 or alternately, the UC520 or SR520.

STEP 3 Connect to an existing community, or create a new one.



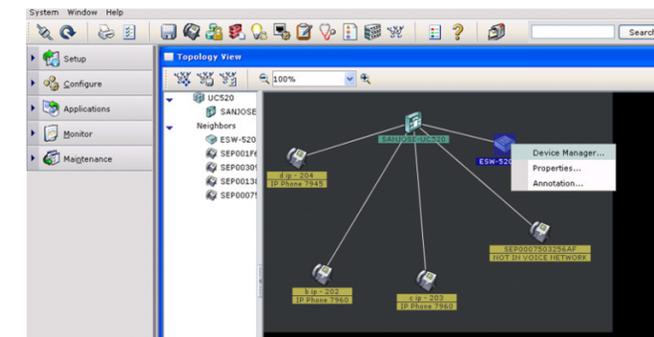
Once you have connected to the community, the Topology View appears and will show the ESW 500 Series Switch.



NOTE

Any devices connected to a switch are not shown in the Topology View of Cisco Configuration Assistant version 1.9.

STEP 4 **Right-click** on the switch to see three options, Device Manager, Properties, and Annotation. Click on **Device Manager**.



The *Switch Configuration Utility* will launch in a new browser window. You can now continue with configuring the switch. Additional information is described in detail in the “Getting Started” section of the *ESW 500 Series Administration Guide*.

3

Connecting Devices

Perform the steps in this section to connect devices to the switch.

STEP 1 Connect devices such as a PC, IP Phone, Access Point, or a Server to one of the numbered ports on the switch using an Ethernet cable.

STEP 2 Connect uplink devices, such as a Cisco UC520, Cisco SR520, or another type of router to one of the uplink ports on the switch using an Ethernet cable.



NOTE

Cisco strongly recommends using Cat5e or better cable. When you connect your network devices, make sure you don't exceed the maximum cabling distance of 100 meters (328 feet)

STEP 3 If you are using the mini-GBIC port, insert the mini-GBIC module to the mini-GBIC port. For more instructions about the mini-GBIC module, see the instructions that came with the module.

STEP 4 If required, power on the devices connected to the switch. The corresponding LED for each active port will light up on the switch.

STEP 5 You are now ready to begin configuring the switch. For details, refer to the “Getting Started” section of the *ESW 500 Series Administration Guide*. Start with the “Connecting to the Switch” section, then proceed to “Common Configuration Tasks”.

4 Where to Go From here

Resource	Location
ESW 500 Series CD	<ul style="list-style-type: none">• End User License Agreement• U.S. FCC Notice• Link to the ESW 500 Series Administration Guide• Regulatory Information
ESW 500 Series Administration Guide	www.cisco.com/go/esw500help
ESW 500 Series Support	www.cisco.com/go/esw500help
Customer Support	https://www.myciscocommunity.com/community/smallbizsupport
Cisco Partner Central site for Small Business	www.cisco.com/web/partners/sell/smb/ (Login is required)
ESW 500 Series Enhanced Warranty	www.cisco.com/go/esw500help
CCA Support Page	http://www.cisco.com/en/US/products/ps7287/tsd_products_support_series_home.html
Open Source License Notices	www.cisco.com/go/osln