



## Cisco SPA 100 Series Analog Telephone Adapters

SPA112 Two Port Phone Adapter  
SPA122 ATA with Router

### Package Contents

- Analog Telephone Adapter
- Ethernet Cable
- Power Adapter
- Quick Start Guide
- Product CD-ROM

# Welcome

Thank you for choosing a Cisco SPA100 Series Analog Telephone Adapter.

This product family includes the following models:

- **SPA112 Two-Port Phone Adapter:** 2 FXS ports and 1 10/100 WAN port.
- **SPA122 ATA with Router:** 2 FXS ports, 1 10/100 WAN port, 1 10/100 LAN port, and built-in router.

This guide describes how to physically install the equipment and how to get started with the configuration.

## 1 Before You Begin




Before you begin the installation, make sure that you have the following equipment and services:

- An active Internet account and Voice over IP account
- Ethernet cable to connect to your broadband network device
- Phone to connect to your SPA112/122
- Phone cable to connect your phone
- *Optional:* Uninterruptible Power Supply (UPS) to provide backup power

## 2 Product Features

### Top Panel



Feature	Description
 <b>Phone 1</b> <b>Phone 2</b>	<b>Steady green</b> —On hook. <b>Slow flashing green</b> —Off hook. <b>Off</b> —Port not ready.
 <b>Internet</b>	<b>Flashing green</b> —Transmitting or receiving data through the WAN port. <b>Off</b> —No link.
 <b>System</b>	<b>Steady green</b> —System ready, IP address acquired. <b>Slow flashing green</b> —Acquiring IP address. (By default, uses DHCP) <b>Fast flashing green</b> —Upgrading firmware. <b>Off</b> —No power or system can not boot up.

## Back Panel



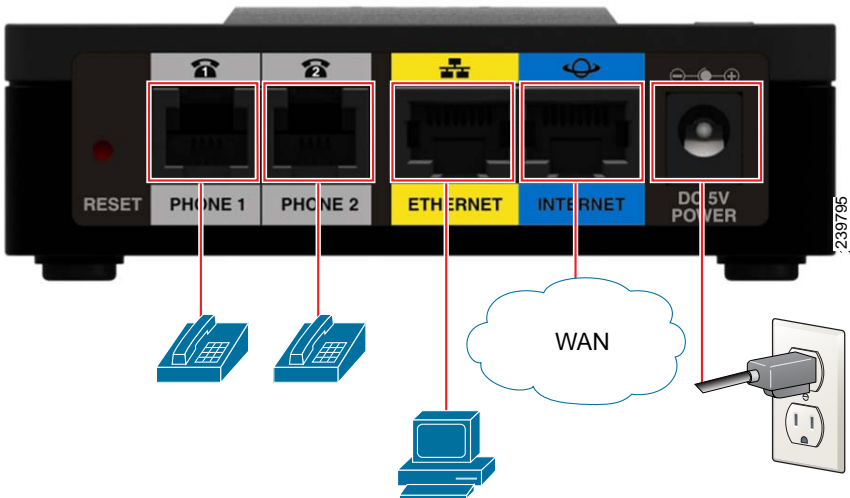
Feature	Description
<b>Reset</b>	Using a paperclip or similar object, press this button briefly to restart the unit. Press and hold for 10 seconds to restore the factory default settings.
<b>Phone 1, Phone 2 (Gray)</b>	Connect to an analog phone, using an RJ-11 phone cable.
<b>Ethernet (Yellow)</b> <i>SPA122 Only</i>	Can be used to connect to a device on your network, such as a computer, using an Ethernet cable.
<b>Internet (Blue)</b>	Connect to a broadband network device (DSL or cable modem) or a network router, using an Ethernet cable.
<b>Power</b>	Connect to a power source, using the provided power adapter.

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## Connecting the Equipment

**NOTE** For wall-mounting instructions, see [Mounting the ATA, page 9](#).

- STEP 1** Connect one end of the provided Ethernet cable to the **Internet (Blue)** port. Connect the other end directly to your broadband network device. Connect one end of a phone cable to the **Phone 1 (Gray)** port. Connect the other end to your analog phone or fax machine.
- STEP 2** Connect one end of another phone cable to another analog phone or fax machine. Connect the other end to the **Phone 2 (Gray)** port.
- STEP 3** *SPA122 Only:* Optionally, connect one end of an Ethernet network cable to the **ETHERNET (Yellow)** port of the ATA. Connect the other end to a device on your network, such as a computer.
- STEP 4** Connect the provided power adapter to the **Power** port.



You can use the web-based configuration utility to set up your ATA. You also can use the built-in Interactive Voice Response (IVR) system.

### Using the Web-Based Configuration Utility

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**STEP 1** Connect your computer to the same subnet as the ATA. For example, if the ATA is connected to a LAN port on your router, also connect your computer to a LAN port on your router.

**Note:** On SPA122, you can connect your computer to the ETHERNET (Yellow) port of the ATA.

**STEP 2** Power on your computer.

**NOTE:** Make sure your computer's Ethernet adapter is set to obtain an IP address automatically. For more information, refer to the Help for your operating system.

**STEP 3** Start a web browser on your computer.

**STEP 4** In the Address bar, enter the IP address of the ATA.

- **SPA112:** Use the ATA's IVR or your router's configuration utility to find the dynamically assigned IP address of the ATA. For information about the IVR, see [Using the IVR for Administration, page 6](#).
- **SPA122:** In the Address bar, enter: **192.168.15.1**  
Note: 192.168.15.1 is the default local IP address of the ATA.

**STEP 5** To log in for the first time, enter the default username, **admin**, and the default password, **admin**. The password is case sensitive.

**STEP 6** Enter the **Connection Type** and settings required by your Internet Service Provider. Types include DHCP (the default option), Static IP, and PPPoE (required for most DSL service). After entering these settings, click Submit to establish your Internet connection.

**STEP 7** Use the menus to configure your settings, as needed. For more information, see the *ATA Administration Guide*. (Documentation links are provided in [Where to Go From Here, page 11](#).)

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## Using the IVR for Administration

An IVR system is available to help you to configure and manage your ATA. You can use the telephone keypad to select options and to make your entries.

To access the IVR menu:

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- STEP 1** Connect an analog phone to the Phone port of the ATA.
  - STEP 2** Press the star key four times: \*\*\*\*
  - STEP 3** After the greeting plays, press the keys on the phone keypad to select your options.
  - STEP 4** Enter the code for the desired action. See the **IVR Actions** table for details.
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### TIPS:

- Enter the numbers slowly, listening for the audio confirmation before entering the next number.
- After you select an option, press the # (pound) key.
- To exit the menu, hang up the telephone or enter **3948#** to exit.
- After entering a value, such as an IP address, press the # (pound) key to indicate that you have finished your selection. To save the new setting, press **1**. To review the new setting, press **2**. To re-enter the new setting, press **3**. To cancel your entry and return to the main menu, press \* (star).
- While entering a value, you can cancel the changes by pressing the \* (star) key twice within half a second. Be sure to press the key quickly, or the \* will be treated as a decimal point entry.
- If the menu is inactive for more than one minute, the ATA times out. You will need to re-enter the menu by pressing the star key four times: \*\*\*\*. Your settings take effect after you hang up the telephone or exit the IVR. The ATA may reboot at this time.
- To enter the decimal points in an IP address, press the \* (star) key. For example, to enter the IP address 191.168.1.105, perform the following tasks:
  - Press these keys: 191\*168\*1\*105.
  - Press the # (pound) key to indicate that you have finished entering the IP address.
  - Press **1** to save the IP address or press the \* (star) key to cancel your entry and return to the main menu.

## IVR Actions

IVR Action	Menu Option	Choices and Instructions
Enter IVR Menu	****	
Check Internet Connection Type	100	
Set Internet Connection Type	101	DHCP: 0 Static IP: 1 PPPoE: Press 2 PPPoE, DHCP: Press 3 DHCP, PPPoE: Press 4
Check Internet IP Address (WAN port)	110	
Set Static IP Address (WAN)	111	Enter the IP address by using numbers on the telephone key pad. Use the * (star) key when entering a decimal point.  Note: This option is available only after you choose Static IP as the Internet Connection Type, through option 101.
Check Network Mask	120	
Set Network Mask	121	To enter the value, press numbers on the telephone key pad. Press the * (star) key to enter a decimal point.  Note: This option is available only after you choose Static IP as the Internet Connection Type, through option 101.
Check Gateway IP Address	130	

<b>IVR Action</b>	<b>Menu Option</b>	<b>Choices and Instructions</b>
Set Gateway IP Address	131	To enter the value, press numbers on the telephone key pad. Press the * (star) key to enter a decimal point.  Note: This option is available only after you choose Static IP as the Internet Connection Type, through option 101.
Check MAC Address	140	
Check Firmware Version	150	
Check Primary DNS Server Setting	160	
Set Primary DNS Server	161	To enter the value, press numbers on the telephone key pad. Press the * (star) key to enter a decimal point.  Note: This option is available only after you choose Static IP as the Internet Connection Type, through option 101.
Check Internet web server port	170	
SPA122 only: Check LAN IP address (Ethernet port)	210	
Announce Line 1 SIP Transport	1910	
Set Line 1 SIP Transport	1911	0: UDP 1: TCP 2: TLS
Check Line 2 SIP Transport	1920	
Set Line 2 SIP Transport	1921	0: UDP 1: TCP 2: TLS
Exit IVR	3948	
Allow or prevent WAN access to the administration web server	7932	1: Enable 0: Disable



IVR Action	Menu Option	Choices and Instructions
Factory Reset of Unit <b>WARNING:</b> All non-default settings will be lost. This includes network and service provider data.	73738 RESET	When prompted, press 1 to confirm, or press * (star) to cancel. After you hear “Option successful,” hang up the phone. The ATA reboots.
Reboot of Voice System	732668 REBOOT	After you hear “Option successful,” hang up the phone. The ATA reboots.
User Factory Reset of Unit <b>WARNING:</b> All user-changeable non-default settings will be lost. This may include network and service provider data.	877778	When prompted, press 1 to confirm, or press * (star) to cancel. After you hear “Option successful,” hang up the phone. The ATA reboots.

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## Mounting the ATA

You can place the ATA on a desktop or mount it on a wall.



### CAUTION

To prevent the ATA from overheating, do not operate it in an area that exceeds an ambient temperature of 104°F (40°C).

### Desktop Placement

Place the ATA on a flat surface near an electrical outlet.



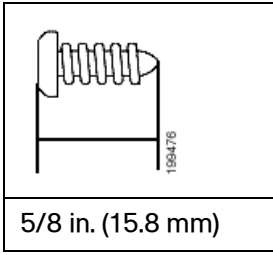
### WARNING

Do not place anything on top of the ATA; excessive weight could damage it.

### Wall Mounting

The ATA has two wall-mount slots on the bottom panel. To mount the ATA on a wall, you need mounting hardware (not included). Suggested hardware is illustrated (not true to scale).

**Recommended hardware (not included):** Two number-six pan-head tapping screws, 5/8-in. length, with anchors for sheet rock installation.

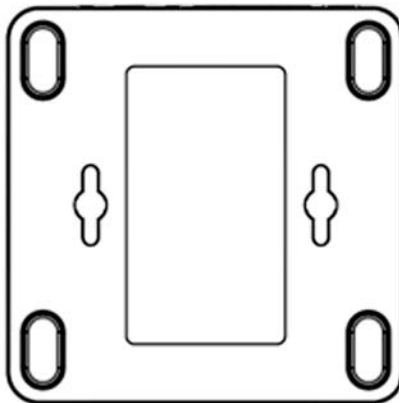


**WARNING**

Insecure mounting might damage the ATA or cause injury. Cisco is not responsible for damages incurred by insecure wall-mounting.

To mount the unit to the wall:

- STEP 1** Determine where you want to mount the unit. Verify that the surface is smooth, flat, dry, and sturdy.
- STEP 2** Drill two pilot holes into the surface 58 mm apart (about 2.28 in.).
- STEP 3** Insert a screw into each hole, leaving a gap of 5 mm (0.1968 in.) between the underside of each screw head and the surface of the wall.
- STEP 4** Place the unit wall-mount slots over the screws and slide the unit down until the screws fit snugly into the wall-mount slots.



## 6

**Where to Go From Here**

<b>Support</b>	
Cisco Small Business Support Community	<a href="http://www.cisco.com/go/smallbizsupport">www.cisco.com/go/smallbizsupport</a>
Cisco Small Business Support and Resources	<a href="http://www.cisco.com/go/smallbizhelp">www.cisco.com/go/smallbizhelp</a>
Phone Support Contacts	<a href="http://www.cisco.com/go/sbsc">www.cisco.com/go/sbsc</a>
Cisco Small Business Firmware Downloads	<a href="http://www.cisco.com/go/software">www.cisco.com/go/software</a>
Cisco Small Business Open Source Requests	<a href="http://www.cisco.com/go/smallbiz_opensource_request">www.cisco.com/go/smallbiz_opensource_request</a>
<b>Product Documentation</b>	
Cisco Small Business Analog Telephone Adapters	<a href="http://www.cisco.com/go/smallbizvoicegateways">www.cisco.com/go/smallbizvoicegateways</a>
<b>Cisco Small Business</b>	
Cisco Partner Central for Small Business (Partner Login Required)	<a href="http://www.cisco.com/web/partners/sell/smb">www.cisco.com/web/partners/sell/smb</a>
Cisco Small Business Home	<a href="http://www.cisco.com/smb">www.cisco.com/smb</a>

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