Cisco SPA232D Mobility Enhanced ATA

Package Contents

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

Welcome

Thank you for choosing a Cisco SPA232D Mobility Enhanced ATA.

This guide describes how to physically install the equipment and how to get started configuring the ATA.

This guide also explains how to register a Cisco SPA302D Mobility Enhanced Cordless Handset with the Cisco SPA232D, which has an integrated DECT Base Station. Cisco SPA302D handsets registered to the Cisco SPA232D can make and receive calls through a Voice over IP (VoIP) service provider and through the local telephone system (via the LINE port). Only Cisco SPA302D handsets are supported with the Cisco SPA232D.

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 ATA
- Phone cable to connect your phone
- *Optional:* Uninterruptible Power Supply (UPS) to provide backup power
- *Optional:* Cisco SPA302D Mobility Enhanced Cordless Handsets

2 Product Features

Top Panel

Feature	Description
•))) **Page/ Registration**	**Steady green**—One or more handsets is registered. **Fast flashing green**—The base is in registration mode. To activate registration mode, press the button for at least 7 seconds. **Slow flashing green**—The base is in paging mode or a handset is off hook. To activate paging mode to locate a handset, press the button for a few seconds; handsets ring. **Off**—No handset is registered to the base.
■ **LINE**	**Steady green**—The line is off hook and connected to the local telephone system. **Slow flashing green**—The line is off hook. **Off**—The port is not ready.
☎ **PHONE**	**Steady green**—The device is on hook and registered to a SIP proxy. **Slow flashing green**—The device is off hook. **Off**—The port is not ready.
🪐 **INTERNET**	**Flashing green**—Transmitting or receiving data through the WAN port. **Off**—No link.
⏻ **SYSTEM**	**Steady green**—The system is ready. **Slow flashing green**—Acquiring an IP address, if applicable. (DHCP is used by default.) **Fast flashing green**—Upgrading the firmware. **Off**—There is no power or the system cannot boot up.

Back Panel

Feature	Description
RESET	Performs two functions: **Restart the ATA:** Press quickly (less than a second) with a paperclip or similar object. **Restore the factory default settings:** Press and hold for 10 seconds.
LINE (Green)	Connects to an analog phone line, using an RJ-11 phone cable.

| Feature	Description
PHONE (Gray)	Connects to an analog phone, using an RJ-11 phone cable.
ETHERNET (Yellow)	Connects to a device on your local area network (LAN), such as a computer by using an Ethernet cable.
INTERNET (Blue)	Connects to a broadband network device (DSL or cable modem) or a network router by using an Ethernet cable.
POWER	Connects to a power by using the provided adapter.

Default Settings

Parameter	Default Value
Administrator Username	admin
Administrator Password	admin
User Username	cisco
User Password	cisco
Internet Connection Type	Automatic Configuration - DHCP
LAN IP Address (Also the address for the web-based configuration utility.)	192.168.15.1
DHCP Range (DHCP server enabled by default.)	192.168.15.100-149
Netmask	255.255.255.0
PIN for handset registration, IP settings, and SIP settings	Blank

3 Connecting the Equipment

NOTE For wall-mounting instructions, see **Additional Information, page 8**.

STEP 1 Connect the provided Ethernet cable to the INTERNET (Blue) port. Connect the other end of the cable directly to your broadband network device.

STEP 2 Connect the provided phone cable to the PHONE 1 (Gray) port. Connect the other end of the cable to your analog phone or fax machine.

STEP 3 Optionally, connect an Ethernet network cable to the ETHERNET (Yellow) port of the ATA. Connect the other end of the cable to a device on your network, such as a computer.

STEP 4 Connect an analog phone line to the LINE (Green) port to connect the ATA to your local telephone system.

STEP 5 Connect the provided power adapter to the POWER port. The unit powers on.

4 Configuration and Management of the ATA
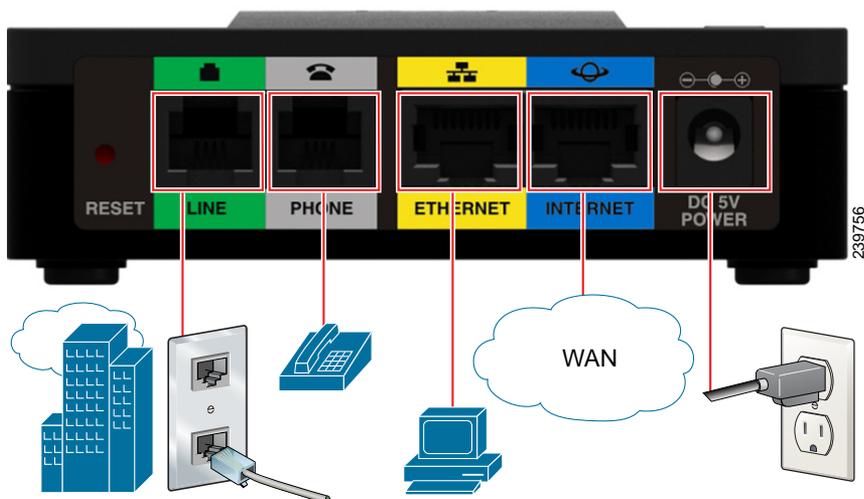
You can use the web-based configuration utility to set up your ATA. You also can use the built-in Interactive Voice Response (IVR) system. (See **Using the IVR for Administration, page 8**.)

STEP 1 Connect the provided Ethernet network cable to the ETHERNET (Yellow) port of the ATA. Connect the other end of the cable to the Ethernet port of your PC.

STEP 2 Power on your computer.

NOTE: Make sure your computer's Ethernet adapter is set to obtain an IP address automatically (DHCP). 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: **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.

NOTE: A user account allows access to limited settings and status pages. To log in as a user, enter **cisco** as the username and the password.

STEP 6 Use the *Quick Setup* page as needed to register your VoIP accounts in the fields for Line 1 and DECT Line 1.

Your VoIP service may require only a few basic parameters to successfully register the Cisco SPA232D. The *Quick Setup* page offers a shortcut to enter the basic parameters. For a more comprehensive listing of parameters, choose the *Voice* menu, and then use the links in the navigation tree.

- **Enter Proxy:** Enter the domain name or URL of the service provider's proxy server.

- **Display Name:** Enter the name of the business. This name typically is used for the Caller ID.

- **User ID:** Enter the user ID for your Internet account with this service provider.

- **Password:** Enter the password for your Internet account.

- **Dial Plan (Line 1 only):** Keep the default settings (recommended). Detailed information about the dial plan settings is available in the online Help and the administration guide.

Note: The Cisco SPA232D assigns DECT Line 1 as the default line for outgoing calls from Cisco SPA302D handsets. If needed, you can configure additional VoIP accounts as separate "DECT Lines." To do so, choose the **Voice** menu, and then use the *DECT Line 1~10* links in the navigation tree. Use the check boxes on the *Quick Setup* page to associate the DECT Line(s) to each handset.

STEP 7   Click **Submit** to save your settings.

STEP 8   If you wish to change the PIN for handset registration, open the *Voice > System* page, and then enter up to four digits in the **IVR Admin Password** field. Click **Submit** to save your settings.

For more information, see the online Help or the administration guide. (Documentation links are provided in **Where to Go From Here, page 14**.)

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5 Registering a Cisco SPA302D Handset

You can register Cisco SPA302D handsets to the integrated DECT base station. These handsets can be purchased separately.

STEP 1   On the Cisco SPA302D handset, press the center Select button on the 4-way navigation keypad.

STEP 2   Select **Register**.

STEP 3   Using the navigation arrows, scroll to the Settings icon and press the center navigation button to select it.

STEP 4   Select **Handset Registration**.

STEP 5   On the Cisco SPA232D, press the **Page/Registration** button and hold it down for at least seven seconds until the green status light flashes quickly.

TIP: If you press the button for fewer than seven seconds, the green status light flashes slowly, indicating the unit is in "paging" mode and is not in registration mode. Registration will not work if the unit is in paging mode.

STEP 6   The default PIN is blank, so do not enter a PIN. Press the left softkey to confirm that you want to register the handset. The "registering" message appears.

STEP 7 To verify that the handset registered to the base station, confirm that the wireless status icon is solid and that the handset ID, such as DECT1 or DECT 2, appears near the top right corner of the display screen.

6 Additional Information

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:

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.

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
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.

IVR Action	Menu Option	Choices and Instructions
Check Gateway IP Address	130	
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	

IVR Action	Menu Option	Choices and Instructions
Allow or prevent WAN access to the administration web server **The system will allow WAN access only if the default admin username and password have been changed in the Configuration Utility.**	7932	1: Enable 0: Disable
Factory Reset of Unit **WARNING: 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.

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.


15,8 mm
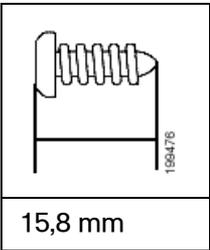
⚠ WARNING Insecure mounting might damage the ATA or cause injury. Cisco is not responsible for damages incurred by insecure wall-mounting.

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.). Make sure that the holes are at the same height above the floor so that the unit is level and secure in either of its two safety-certified orientations.

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.
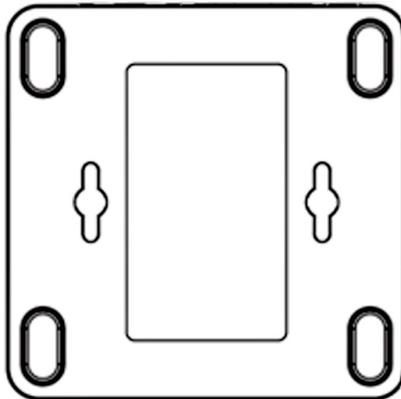
7 Where to Go From Here

Support	
Cisco Small Business Support Community	www.cisco.com/go/smallbizsupport
Cisco Small Business Support and Resources	www.cisco.com/go/smallbizhelp
Cisco Small Business Firmware Downloads	www.cisco.com/go/software
Cisco Small Business Open Source Requests	www.cisco.com/go/smallbiz_opensource_request
Product Documentation	
Cisco Small Business Analog Telephone Adapters	www.cisco.com/go/smallbizvoicegateways
Cisco Small Business	
Cisco Partner Central for Small Business (Partner Login Required)	www.cisco.com/web/partners/sell/smb
Cisco Small Business Home	www.cisco.com/smb

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