



At A Glance



Cisco ATA 186 and Cisco ATA 188 Analog Telephone Adaptor

- 1** Overview
- 2** Installation
- 3** Configuration

1 Overview

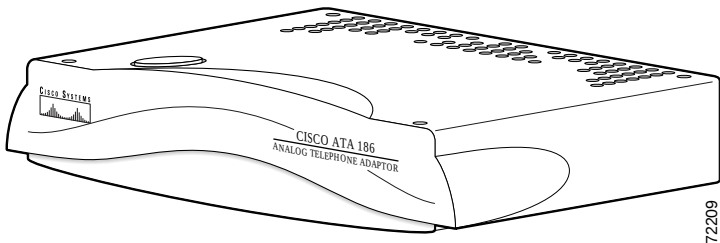
This guide contains basic instructions for installing, testing, and operating your Cisco Analog Telephone Adaptor (Cisco ATA 186 or Cisco ATA 188). For advanced configuration information for use by service providers and system administrators, refer to the *Cisco ATA 186 and Cisco ATA 188 Administrator's Guide*. This document is available on the World Wide Web.

You can access the most current Cisco documentation on the World Wide Web at the following sites:

- <http://www.cisco.com/>
- <http://www-china.cisco.com/>
- <http://www-europe.cisco.com/>



Figure 1 **Cisco ATA 186 Analog Telephone Adaptor**



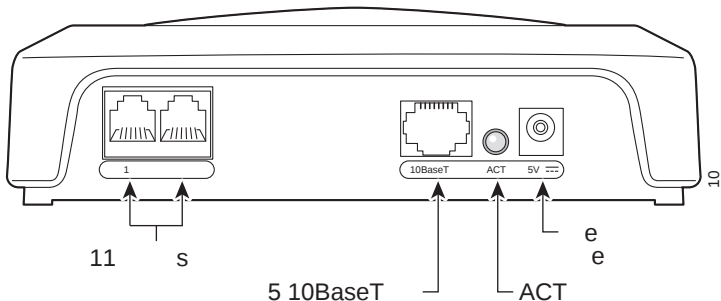
Cisco ATA 186

The Cisco ATA 186 connects one or two analog telephones to an IP-based telephony network. The hardware features:

- Function button
- Two RJ-11 FXS ports
- RJ-45 10BASE-T uplink port
- Network activity (ACT) LED
- Power connector

Figure 2 shows the rear panel of the Cisco ATA 186.

Figure 2 **Cisco ATA 186 Rear Panel**



Cisco ATA 188

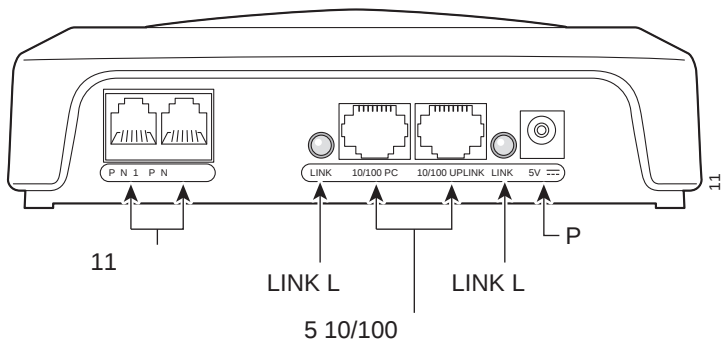
The Cisco ATA 188 connects one or two analog telephones to an IP-based telephony network. The hardware features:

- Two RJ-11 FXS ports
- RJ-45 10/100BASE-T uplink port
- RJ-45 10/100BASE-T data port
- Two link activity (LINK) LEDs
- Power connector



Figure 3 shows the rear panel of the Cisco ATA 188.

Figure 3 *Cisco ATA 188 Rear Panel*



Safety Recommendations

To ensure general safety, follow these guidelines:

- Do not open or disassemble this product.
- Do not get this product wet or pour liquids into this device.
- Do not perform any action that creates a potential hazard to people or makes the equipment unsafe.



Warning

This warning symbol means ***danger***. You are in a situation that could cause bodily injury. Before you work on any equipment, be aware of the hazards involved with electrical circuitry and be familiar with standard practices for preventing accidents. To see translations of the warnings that appear in this publication, refer to the ***Regulatory Compliance and Safety Information*** document that accompanied this device.



Waarschuwing

Dit waarschuwingssymbool betekent gevaar. U verkeert in een situatie die lichamelijk letsel kan veroorzaken. Voordat u aan enige apparatuur gaat werken, dient u zich bewust te zijn van de bij elektrische schakelingen betrokken risico's en dient u op de hoogte te zijn van standaard maatregelen om ongelukken te voorkomen. Voor vertalingen van de waarschuwingen die in deze publicatie verschijnen, kunt u het document *Regulatory Compliance and Safety Information* (Informatie over naleving van veiligheids- en andere voorschriften) raadplegen dat bij dit toestel is ingesloten.

Varoitus Tämä varoitusmerkki merkitsee vaaraa. Olet tilanteessa, joka voi johtaa ruumiinvammaan. Ennen kuin työskentelet minkään laitteiston parissa, ota selvää sähkökytkentöihin liittyvistä vaaroista ja tavanomaisista onnettomuuksien ehkäisykeinoista. Tässä julkaisussa esiintyvien varoitusten käännökset löydät laitteen mukana olevasta *Regulatory Compliance and Safety Information* -kirjasesta (määräysten noudattaminen ja tietoa turvallisuudesta).



Attention

Ce symbole d'avertissement indique un danger. Vous vous trouvez dans une situation pouvant causer des blessures ou des dommages corporels. Avant de travailler sur un équipement, soyez conscient des dangers posés par les circuits électriques et familiarisez-vous avec les procédures couramment utilisées pour éviter les accidents. Pour prendre connaissance des traductions d'avertissements figurant dans cette publication, consultez le document *Regulatory Compliance and Safety Information* (Conformité aux règlements et consignes de sécurité) qui accompagne cet appareil.

Warnung **Dieses Warnsymbol bedeutet Gefahr. Sie befinden sich in einer Situation, die zu einer Körperverletzung führen könnte. Bevor Sie mit der Arbeit an irgendeinem Gerät beginnen, seien Sie sich der mit elektrischen Stromkreisen verbundenen Gefahren und der Standardpraktiken zur Vermeidung von Unfällen bewußt. Übersetzungen der in dieser Veröffentlichung enthaltenen Warnhinweise finden Sie im Dokument *Regulatory Compliance and Safety Information* (Informationen zu behördlichen Vorschriften und Sicherheit), das zusammen mit diesem Gerät geliefert wurde.**



Avvertenza

Questo simbolo di avvertenza indica un pericolo. La situazione potrebbe causare infortuni alle persone. Prima di lavorare su qualsiasi apparecchiatura, occorre conoscere i pericoli relativi ai circuiti elettrici ed essere al corrente delle pratiche standard per la prevenzione di incidenti. La traduzione delle avvertenze riportate in questa pubblicazione si trova nel documento *Regulatory Compliance and Safety Information* (Conformità alle norme e informazioni sulla sicurezza) che accompagna questo dispositivo.

Advarsel Dette varselsymbolet betyr fare. Du befinner deg i en situasjon som kan føre til personskade. Før du utfører arbeid på utstyr, må du være oppmerksom på de faremomentene som elektriske kretser innebærer, samt gjøre deg kjent med vanlig praksis når det gjelder å unngå ulykker. Hvis du vil se oversettelser av de advarslene som finnes i denne publikasjonen, kan du se i dokumentet *Regulatory Compliance and Safety Information* (Overholdelse av forskrifter og sikkerhetsinformasjon) som ble levert med denne enheten.



Aviso Este símbolo de aviso indica perigo. Encontra-se numa situação que lhe poderá causar danos físicos. Antes de começar a trabalhar com qualquer equipamento, familiarize-se com os perigos relacionados com circuitos eléctricos, e com quaisquer práticas comuns que possam prevenir possíveis acidentes. Para ver as traduções dos avisos que constam desta publicação, consulte o documento *Regulatory Compliance and Safety Information* (Informação de Segurança e Disposições Reguladoras) que acompanha este dispositivo.

¡Advertencia! Este símbolo de aviso significa peligro. Existe riesgo para su integridad física. Antes de manipular cualquier equipo, considerar los riesgos que entraña la corriente eléctrica y familiarizarse con los procedimientos estándar de prevención de accidentes. Para ver una traducción de las advertencias que aparecen en esta publicación, consultar el documento titulado *Regulatory Compliance and Safety Information* (Información sobre seguridad y conformidad con las disposiciones reglamentarias) que se acompaña con este dispositivo.



Varning! Denna varningssymbol signalerar fara. Du befinner dig i en situation som kan leda till personskada. Innan du utför arbete på någon utrustning måste du vara medveten om farorna med elkretsar och känna till vanligt förfarande för att förebygga skador. Se förklaringar av de varningar som förekommer i denna publikation i dokumentet *Regulatory Compliance and Safety Information* (Efterrättelse av föreskrifter och säkerhetsinformation), vilket medföljer denna anordning.



Warning

Ultimate disposal of this product should be handled according to all national laws and regulations.



Warning

Read the installation instructions before you connect the system to its power source.



Warning

This equipment contains a ring signal generator (ringer), which is a source of hazardous voltage. Do not touch the RJ-11 (phone) port wires (conductors), the conductors of a cable connected to the RJ-11 port, or the associated circuit-board when the ringer is active. The ringer is activated (indicated by a clicking sound) by an incoming call.



Warning

The plug-socket combination must be accessible at all times because it serves as the main disconnecting device.



Warning

To avoid electric shock, do not connect safety extra-low voltage (SELV) circuits to telephone-network voltage (TNV) circuits. LAN ports contain SELV circuits, and WAN ports contain TNV circuits. Some LAN and WAN ports both use RJ-45 connectors. Use caution when connecting cables.



Warning

Do not work on the system or connect or disconnect cables during periods of lightning activity.



Warning

This equipment is to be installed and maintained by service personnel only as defined by AS/NZS 3260 Clause 1.2.14.3 Service Personnel.



Caution

Read the instructions in the “Installation Steps” section on page 19 before you connect the system to its power source.

2 Installation

Installation Requirements

The analog telephone adaptor (ATA) package includes:

- Cisco ATA 186 or Cisco ATA 188 Analog Telephone Adaptor

- *Cisco ATA 186 and Cisco ATA 188 Analog Telephone Adaptor At A Glance* (this document)
- *Regulatory Compliance and Safety Information for the Cisco ATA 186 and Cisco ATA 188.*
- 5V power adaptor
- Power cord

**Note**

The Cisco ATA 186 and Cisco ATA 188 are intended for use with a 5V DC power adaptor only.

You also need:

- 10/100BASE-T category-3 or better Ethernet cable – One cable for each Ethernet port.

**Note**

For uplink connections, use a crossover Ethernet cable to connect the ATA to another Ethernet device (such as a router or PC) without using a hub. Otherwise, use straight-through Ethernet cables for both uplink and data port connections.

**Note**

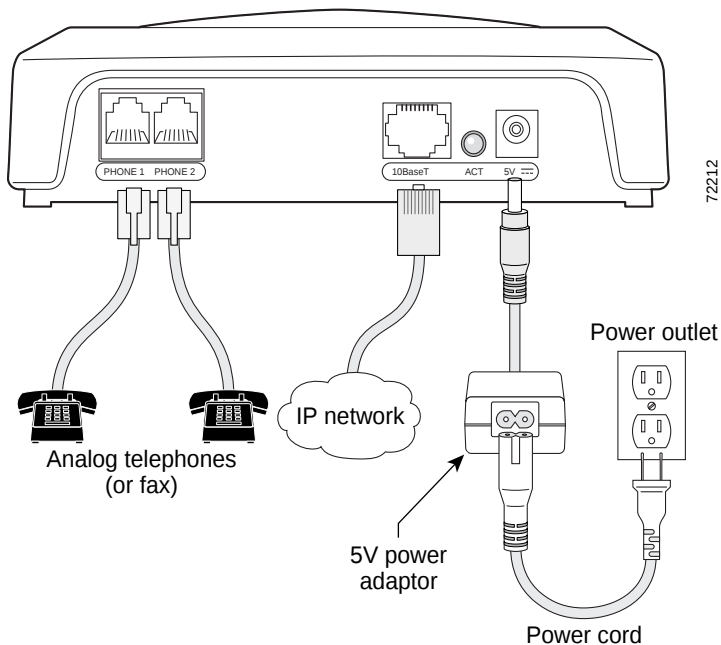
Category-3 Ethernet cable supports 10BASE-T up to 100 meters and 100BASE-T up to 10 meters without quality degradation.

- Access to an IP network
- One or two analog touch-tone telephones

Installation Steps

Figure 4 illustrates the cabling for the Cisco ATA 186. Figure 5 illustrates the cabling for the Cisco ATA 188.

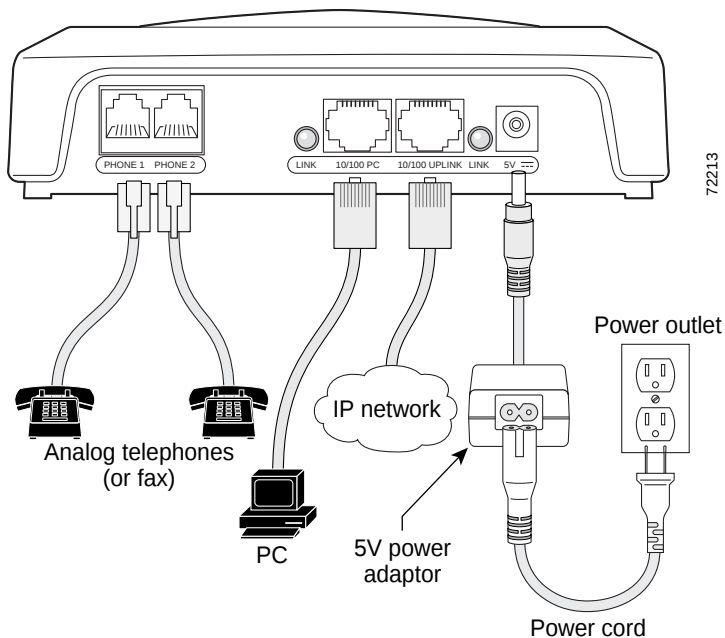
Figure 4 Cabling the Cisco ATA 186



72212



Figure 5 **Cabling the Cisco ATA 188**



Refer to the appropriate illustration and follow these steps to install your ATA:

Step 1 Place your ATA near an electrical power outlet.

Step 2 Connect one end of a telephone line cord to the PHONE 1 input on the rear panel of the ATA. Connect the other end to an analog telephone set.

If you are connecting a telephone set that was previously connected to an active telephone line, unplug the telephone line cord from the wall jack and plug it into the PHONE 1 input.



Warning

To reduce the risk of fire, use only No. 26 AWG or larger telecommunication line cord.



Caution

Do not connect the PHONE input ports to a telephone wall jack. To avoid damaging the device or building telephone wiring, do not connect the ATA to the telecommunications network. Connect the PHONE port to a telephone only, never to a telephone wall jack.

**Note**

The telephone must be switched to tone setting (not pulse) for the ATA to operate properly.

- Step 3** (Optional) Connect the telephone line cord of a second telephone to the PHONE 2 input.

**Note**

If you are connecting only one telephone to the ATA, you must use the PHONE 1 input.

- Step 4** Connect an Ethernet cable to the uplinkRJ-45 connector on the ATA (10BASE-T connector on the Cisco ATA 186 or 10/100UPLINK connector on the Cisco ATA 188).

**Note**

Use a crossover Ethernet cable to connect the ATA to another Ethernet device (such as a router or PC) without using a hub. Otherwise, use a straight-through Ethernet cable.

- Step 5** (Cisco ATA 188 only- optional) Connect a straight-through Ethernet cable from your PC to the 10/100 PC RJ-45 connector on the ATA.

- Step 6** Connect the socket end of the power cord to the 5V DC power adaptor.
- Step 7** Insert the power adaptor cable into the power connector on the ATA.



Warning

This product relies on the building's installation for short-circuit (overcurrent) protection. Ensure that a fuse or circuit breaker no larger than 120 VAC, 15A U.S. (240VAC, 10A international) is used on the phase conductors (all current-carrying conductors).



Warning

The device is designed to work with TN power systems.

- Step 8** Connect the plug end of the 5V DC power adaptor cord into an electrical power outlet.

When the ATA is properly connected and powered up, the green activity LED flashes to indicate network activity. This LED is labeled ACT on the rear panel of the Cisco ATA 186 and labeled LINK on the rear panel of the Cisco ATA 188.



Caution

Do not cover or block the air vents on either the top or bottom surface of the ATA. Overheating can cause permanent damage to the unit.

3 Configuration

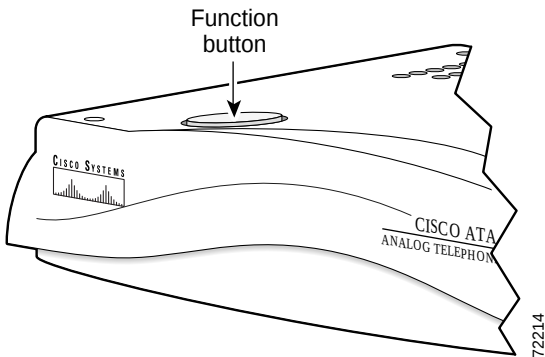
The ATA settings might have been preconfigured for you by your service provider or system administrator. When the ATA is in configuration search or upgrade mode, the function button on the top panel blinks. When searching for configuration or upgrade information, the function button blinks slowly. When the configuration is downloading, the function button blinks quickly. (See Figure 6.)



Caution

Do not pick up the telephone handset or unplug the device while the function button is blinking quickly. Doing so stops the configuration download, and can cause permanent damage to the device.

Figure 6 Function Button



Testing the ATA

When the function button stops blinking, lift the primary line telephone handset. If you hear a dial tone you have properly installed the ATA.



Note

The time it takes for the blinking to stop varies from less than a minute to a minute or more depending on the size of the file and the amount of network traffic.



Making a Call

Lift the telephone handset. Make a call as you normally do. You will hear ringing if the called party is available. When the called party answers, speak normally and hang up when finished. You can cancel or discontinue your call at any time by hanging up the handset. You can make a separate, simultaneous telephone call by using the second handset connected to the ATA.



Note

Your service provider or system administrator might offer a different dial plan. If you cannot place calls using the preceding instructions, contact your service provider or system administrator for assistance.

Troubleshooting Tips

- If you do not see the green activity or link LEDs flashing after you connect the Ethernet cable, check the power cord and uplink Ethernet connection.
- If the function button on top of the ATA continues to blink after power up, check the Ethernet connection. Do not unplug the power cord.

- If a device connected to the Ethernet port does not function (no network connectivity), check to be sure that the correct cable (straight-through or crossover) has been used.
- If you do not hear dial tone after lifting the telephone handset, check to see if the telephone line cord from the telephone is plugged into the ATA.
- If you place a call and receive a fast-busy tone, one possible cause may be the party you called is not available. Try your call again later.

If these actions do not solve the problem, contact your service provider or system administrator for help.





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