



## **Analog Contemporary Series User's Guide**

### **Models:**

- Analog cordless 1-line hotel telephone - A2410/CTM-A2411/CTM-A2411-BATT
- Analog cordless 2-line hotel telephone - A2420/CTM-A2421/CTM-A2421-BATT
- Analog corded/cordless 1-line hotel telephone - CTM-A2510/CTM-A2510-USB
- Analog cordless charging base - C4000/C4001
- Analog cordless charging stand - C4010/C4011/C4011-USB
- Analog cordless 1-line accessory handset - C4100/CTM-C4101
- Analog cordless 2-line accessory handset - C4200/CTM-C4201
- Analog cordless 1-line accessory Petite™ - CTM-A241P
- Analog cordless 2-line accessory Petite™ - CTM-A242P
- Analog cordless 1-line accessory handset and charger bundle - CTM-A241HS
- Analog cordless 2-line accessory handset and charger bundle - CTM-A242HS
- Analog cordless 1-line accessory handset with speed dials and charger bundle - CTM-A241SD
- Analog cordless 2-line accessory handset with speed dials and charger bundle - CTM-A242SD

## Important safety instructions

When using your telephone equipment, basic safety precautions should always be followed to reduce the risk of fire, electric shock and injury, including the following:

1. This product should be installed by a qualified technician.
2. Read and understand all instructions.
3. Follow all warnings and instructions marked on the product.
4. Unplug this product from the wall outlet before cleaning. Do not use liquid or aerosol cleaners. Use a damp cloth for cleaning.
5. Do not use this product near water such as near a bath tub, wash bowl, kitchen sink, laundry tub or swimming pool, or in a wet basement or shower.
6. Do not place this product on an unstable table, shelf, stand or other unstable surfaces.
7. Slots and openings in the back or bottom of the telephone base and handset are provided for ventilation. To protect them from overheating, these openings must not be blocked by placing the product on a soft surface such as a bed, sofa or rug. This product should never be placed near or over a radiator or heat register. This product should not be placed in any area where proper ventilation is not provided.
8. This product should be operated only from the type of power source indicated on the marking label. If you are not sure of the type of power supply on the premises, consult your dealer or local power company.
9. Do not allow anything to rest on the power cord. Do not install this product where the cord may be walked on.
10. Never push objects of any kind into this product through the slots in the telephone base or handset because they may touch dangerous voltage points or create a short circuit. Never spill liquid of any kind on the product.
11. To reduce the risk of electric shock, do not disassemble this product, but take it to an authorized service facility. Opening or removing parts of the telephone base or handset other than specified access doors may expose you to dangerous voltages or other risks. Incorrect reassembling can cause electric shock when the product is subsequently used.
12. Do not overload wall outlets and extension cords.
13. Unplug this product from the wall outlet and refer servicing to an authorized service facility under the following conditions:
  - When the power supply cord or plug is damaged or frayed.
  - If liquid has been spilled onto the product.
  - If the product has been exposed to rain or water.
  - If the product does not operate normally by following the operating instructions. Adjust only those controls that are covered by the operation instructions. Improper adjustment of other controls may result in damage and often requires extensive work by an authorized technician to restore the product to normal operation.
  - If the product has been dropped and the telephone base and/or handset has been damaged.
  - If the product exhibits a distinct change in performance.
15. Avoid using a telephone (other than cordless) during an electrical storm. There is a remote risk of electric shock from lightning.
16. Do not use the telephone to report a gas leak in the vicinity of the leak. Under certain circumstances, a spark may be created when the adapter is plugged into the power outlet, or when the handset is replaced in its cradle. This is a common event associated with the closing of any electrical circuit. The user should not plug the phone into a power outlet, and should not put a charged handset into the cradle, if the phone is located in an environment containing concentrations of flammable or flame-supporting gases, unless there is adequate ventilation. A spark in such an environment could create a fire or explosion. Such environments might include: medical use of oxygen without adequate ventilation; industrial gases (cleaning solvents; gasoline vapors; etc.); a leak of natural gas; etc.
17. Only put the handset of your telephone next to your ear when it is in normal talk mode.
18. The power adapters are intended to be correctly oriented in a vertical or floor mount position. The prongs are not designed to hold the plug in place if it is plugged into a ceiling, under-the-table or cabinet outlet.
19. For pluggable equipment, the socket-outlet (power adapter) shall be installed near the equipment and shall be easily accessible.
20. Use only the power cord and batteries indicated in this manual. Do not dispose of batteries in a fire. They may explode. Check with local codes for possible special disposal instructions.
21. In wall mounting position, make sure to mount the telephone base on the wall by aligning the eyelets with the mounting studs of the wall plate. Then slide the telephone base down on both mounting studs until it locks into place. Refer to the full instructions in **Installation** in the user's manual.
22. **CAUTION:** Keep small metallic objects such as pins and staples away from the handset receiver.
23. **CAUTION:** There may be a risk of explosion if a wrong type of handset battery is used (A2410, A2420, C4100, C4200, CTM-A241HS, CTM-A241SD, CTM-A242HS, CTM-A242SD, CTM-A2411, CTM-A2411-BATT, CTM-A2421, CTM-A2421-BATT, CTM-A2510, CTM-A2510-USB, CTM-C4101 and CTM-C4201). Use only the supplied rechargeable battery (BT264392/ BT266342) or replacement battery (BT266342). Dispose of used batteries according to the information in **The RBRC® seal** in the user's manual.

**SAVE THESE INSTRUCTIONS**

## For cETL compliance only

### Mesures de sécurité importantes

Afin de réduire les risques d'incendie, de blessures corporelles ou d'électrocution, suivez toujours ces mesures préventives de base lorsque vous utilisez votre téléphone:

1. Cet appareil doit être installé par un technicien qualifié.
2. Lisez et comprenez bien toutes les instructions.
3. Observez toutes les instructions et mises en garde inscrites sur l'appareil.
4. Débranchez ce téléphone de la prise murale avant de le nettoyer. N'utilisez pas de nettoyeurs liquides ni en aérosol. N'utilisez qu'un chiffon doux et légèrement humecté.
5. N'utilisez pas ce produit près de l'eau, tel que près d'un bain, d'un lavabo, d'un évier de cuisine, d'un bac de lavage ou d'une piscine, ou dans un sous-sol humide ou sous la douche.
6. Ne déposez pas ce téléphone sur un chariot, support ou table chancelants. L'appareil pourrait tomber et être sérieusement endommagé.
7. Le boîtier de l'appareil est doté de fentes et d'ouvertures d'aération situées à l'arrière ou en dessous. Afin d'empêcher la surchauffe, ces ouvertures ne doivent pas être obstruées en plaçant l'appareil sur un lit, divan, tapis ou autre surface similaires. Ne placez pas cet appareil à proximité d'un élément de chauffage ni d'une plinthe électrique. De plus, ne l'installez pas dans une unité murale ou un cabinet fermé qui ne possède pas d'aération adéquate.
8. Ne faites fonctionner cet appareil qu'avec le type d'alimentation indiqué sur les étiquettes de l'appareil. Si vous ne connaissez pas le voltage de votre maison, consultez votre marchand ou votre fournisseur d'électricité.
9. Ne déposez rien sur le cordon d'alimentation. Installez cet appareil dans un endroit sécuritaire, là où personne ne pourra trébucher sur la ligne d'alimentation ni le cordon téléphonique modulaire.
10. N'insérez jamais d'objets à travers les fentes et ouvertures de cet appareil, car ils pourraient toucher à des points de tension dangereux ou court-circuiter des pièces, ce qui constituerait un risque d'incendie ou d'électrocution. N'échappez pas de liquides dans l'appareil.
11. Afin de réduire les risques d'électrocution, ne démontez pas l'appareil, mais apportez-le plutôt à un centre de service qualifié s'il doit être réparé. En enlevant le couvercle, vous vous exposez à des tensions dangereuses ou autres dangers similaires. Un remontage inadéquat peut être à l'origine d'une électrocution lors d'une utilisation ultérieure de l'appareil.
12. Ne surchargez pas les prises de courant ni les rallonges électriques, car ceci peut constituer un risque d'incendie ou d'électrocution.
13. Unplug this product from the wall outlet and refer servicing to an authorized service facility under the following conditions:
  - Lorsque le cordon d'alimentation est endommagé ou écorché.
  - Si du liquide a été échappé dans l'appareil.
  - Si l'appareil a été exposé à une source d'humidité telle que la pluie ou l'eau.
  - Si l'appareil ne fonctionne pas normalement en suivant les directives du guide. N'ajustez que les commandes couvertes dans le guide d'utilisation, car un mauvais réglage de celles-ci peut être à l'origine de dommages, ce qui nécessiterait des réparations considérables pour remettre l'appareil à son état de fonctionnement normal.
  - Si l'appareil a été échappé ou son boîtier, endommagé.
  - Si le produit affiche une nette diminution de sa performance.
15. Évitez d'utiliser un téléphone (autre qu'un sans fil) pendant un orage. Les éclairs peuvent être à l'origine d'une électrocution.
16. N'utilisez pas le téléphone pour rapporter une fuite de gaz à proximité de celle-ci. Sous certaines circonstances, une inteiincelle pourrait survenir lorsque l'adaptateur est branché à une prise de courant, ou lorsque le combiné est déposé sur le combiné. Ceci est un événement commun associé avec la fermeture d'un circuit électrique. L'utilisateur ne devrait pas brancher le téléphone dans une prise de courant, et ne devrait pas déposer le combiné chargé sur le socle, si le téléphone se trouve dans un environnement où la concentration de gaz inflammables, sans ventilation adéquate. Une étincelle dans ces endroits pourrait provoquer un incendie ou une explosion. Ces environnements pourraient être l'utilisation médicale de l'oxygène sans ventilation adéquate; le gaz industriel (dissolvants, vapeurs d'essence, etc.); une fuite de gaz naturel, etc.
17. Placez uniquement le combiné de votre appareil près de votre oreille lorsqu'il est en mode de conversation normal.
18. Les adaptateurs sont conçus pour être orientés en position verticale ou en position horizontale sur le plancher. Les fiches ne sont pas conçues pour maintenir la prise en place si celle-ci est branchée au plafond, sous la table ou les armoires.
19. Pour les PRODUITS À BRANCHER À UNE PRISE DE COURANT, la prise de courant doit être installée près du produit, afin d'assurer une accessibilité sécuritaire à la prise de courant.
20. N'utilisez que cordon d'alimentation et les piles indiquées dans ce guide d'utilisation. Ne jetez pas les piles au feu. Celles-ci risqueraient d'exploser. Vérifiez avec les règlements locaux afin de vous assurer de respecter les instructions spéciales de mise aux rebus de teilles pièces.
21. En position de montage mural, assurez-vous de monter le socle du téléphone sur le mur en alignant les oeilletons avec les goujons de fixation de la plaque murale. Ensuite, faites glisser le socle vers le bas sur les deux goujons de fixation jusqu'à ce qu'il se verrouille en place. Reportez-vous aux instructions complètes dans la section **Installation** dans ce guide d'utilisation.
22. **MISE EN GARDE** : Éloignez les petits objets métalliques tels que les broches de l'écouteur du combiné.
23. **MISE EN GARDE** : Il pourrait y avoir un risque d'explosion si un mauvais type de pile est utilisé pour le combiné (A2410, A2420, C4100, C4200, CTM-A241HS, CTM-A241SD, CTM-A242HS, CTM-A242SD, CTM-A2411, CTM-A2411-BATT, CTM-A2421, CTM-A2421-BATT, CTM-A2510, CTM-A2510-USB, CTM-C4101 and CTM-C4201) . N'utilisez que la pile rechargeable (BT264392/BT266342) incluse, ou une pile de recharge (BT266342). Veuillez jeter les piles mortes en respectant les instructions de la section **RBRC<sup>MD</sup>** du guide d'utilisation.

## CONSERVEZ CES INSTRUCTIONS

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## Parts checklist

Items contained in the respective telephone package:

| Model name                        | Model number                 | Parts included                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
|-----------------------------------|------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Analog cordless 1-line            | A2410                        |        <p>Telephone base with faceplate and overlay   Cordless handset   Mounting bracket   Battery   Screw   Power adapter with RJ-45 cord   Telephone line cord</p>                                                                                                                                                                                                                                                                                                                                               |
| Analog cordless 2-line            | A2420                        |        <p>Telephone base with faceplate and overlay   Cordless handset   Mounting bracket   Battery   Screw   Power adapter with RJ-45 cord   Telephone line cord</p>                                                                                                                                                                                                                                                                                                                                               |
| Analog cordless 1-line            | CTM-A2411/<br>CTM-A2411-BATT |      <p>Telephone base with faceplate and overlay   Cordless handset   Mounting bracket   Battery (2)   Screws (2)</p>   <p>Power adapter with RJ-45 cord   Telephone line cord</p>                                                                                                                                                                                                                                                                                                                                    |
| Analog cordless 2-line            | CTM-A2421/<br>CTM-A2421-BATT |      <p>Telephone base with faceplate and overlay   Cordless handset   Mounting bracket   Battery (2)   Screws (2)</p>   <p>Power adapter with RJ-45 cord   Telephone line cord</p>                                                                                                                                                                                                                                                                                                                            |
| Analog corded/<br>cordless 1-line | CTM-A2510                    |       <p>Telephone base with faceplate and overlay   Corded handset   Cordless handset   Mounting bracket   Battery   Screws (2)</p>     <p>Telephone line cord   Charging stand   Charger power adapter   Power adapter with RJ-45 cord</p> |
| Analog corded/<br>cordless 1-line | CTM-A2510-USB                |       <p>Telephone base with faceplate and overlay   Corded handset   Cordless handset   Mounting bracket   Battery   Screws (2)</p>     <p>Telephone line cord   Charging stand   Charger power adapter   Power adapter with RJ-45 cord</p> |

## Parts checklist

Items contained in the respective telephone package:

| Model name                                                                   | Model number | Parts included                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
|------------------------------------------------------------------------------|--------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Analog cordless 1-line accessory Petite                                      | CTM-A241P    |  Telephone base with faceplate and overlay  Corded handset  Mounting bracket  Power adapter                                                                     |
| Analog cordless 2-line accessory Petite                                      | CTM-A242P    |  Telephone base with faceplate and overlay  Corded handset  Mounting bracket  Power adapter                                                                     |
| Analog cordless 1-line accessory handset and charger bundle                  | CTM-A241HS   |  Cordless handset  Battery  Screw  Charging stand  Power adapter                 |
| Analog cordless 2-line accessory handset and charger bundle                  | CTM-A242HS   |  Cordless handset  Battery  Screw  Charging stand  Power adapter                 |
| Analog cordless 1-line accessory handset with speed dials and charger bundle | CTM-A241SD   |  Cordless handset  Battery  Screws (2)  Charging stand  Power adapter     |
| Analog cordless 2-line accessory handset with speed dials and charger bundle | CTM-A242SD   |  Cordless handset  Battery  Screws (2)  Charging stand  Power adapter |

## Parts checklist

Items contained in the respective telephone package:

| Model name                               | Model number | Parts included                                                                                                                                                                                                                                                                                     |
|------------------------------------------|--------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Analog cordless 1-line accessory handset | C4100        |   <br>Cordless handset    Battery    Screw      |
| Analog cordless 1-line accessory handset | CTM-C4101    |   <br>Cordless handset    Battery    Screws (2) |
| Analog cordless 2-line accessory handset | C4200        |   <br>Cordless handset    Battery    Screw      |
| Analog cordless 2-line accessory handset | CTM-C4201    |   <br>Cordless handset    Battery    Screws (2) |

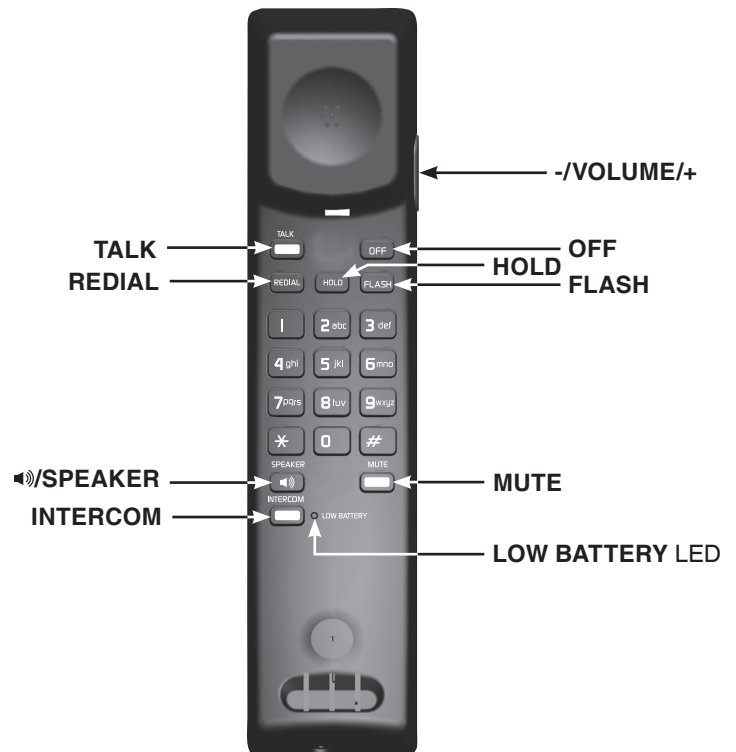
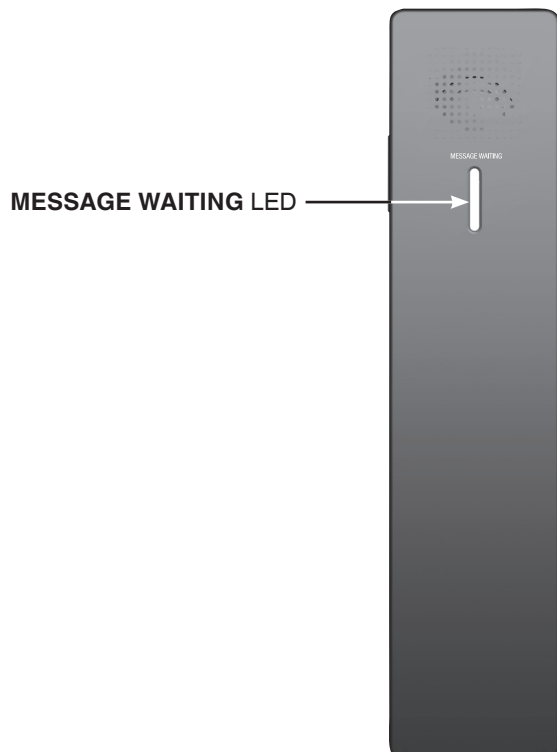
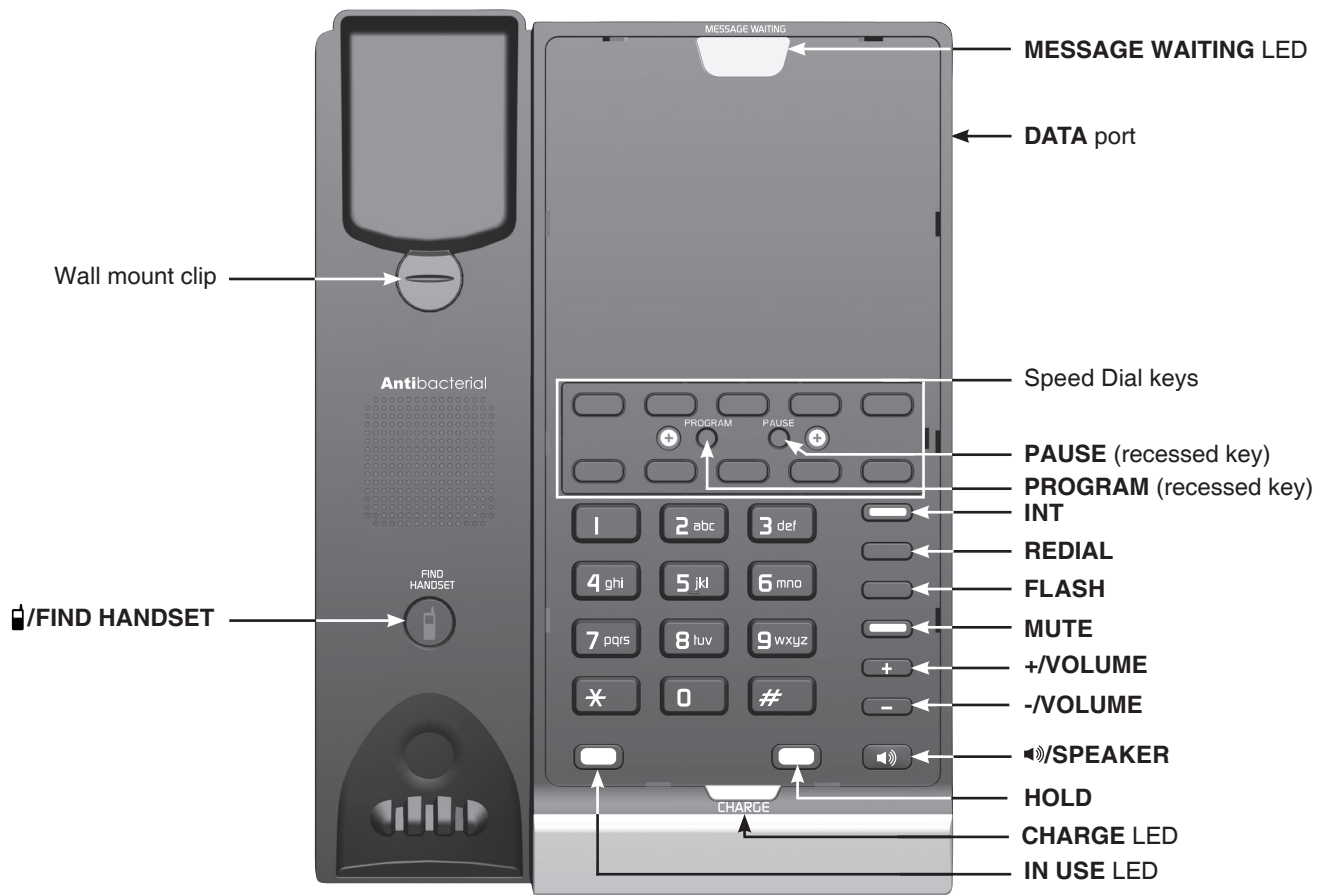
## Parts checklist

Items contained in the respective telephone package:

| Model name                     | Model number | Parts included                                                                                                                                                                                                                                                                                                                            |
|--------------------------------|--------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Analog cordless charging base  | C4000        |   <br>Charging base    Mounting bracket with a screw    Power adapter with RJ-45 cord |
| Analog cordless charging base  | C4001        |   <br>Charging base    Mounting bracket with a screw    Power adapter                 |
| Analog cordless charging stand | C4010        |  <br>Charging stand    Power adapter with RJ-45 cord                                                                                                                    |
| Analog cordless charging stand | C4011        |  <br>Charging stand    Power adapter                                                                                                                                    |
| Analog cordless charging stand | C4011-USB    |  <br>Charging stand    Power adapter                                                                                                                                  |

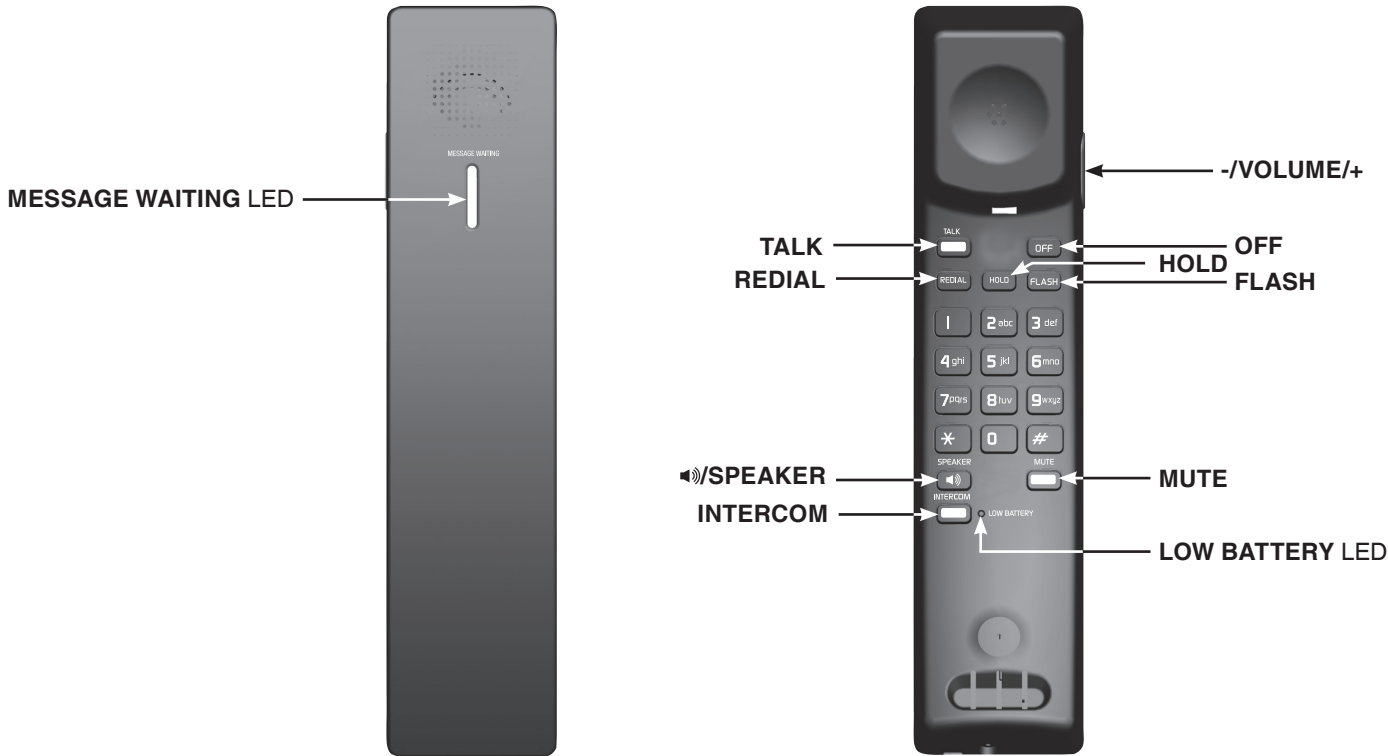


## Analog cordless 1-line - A2410



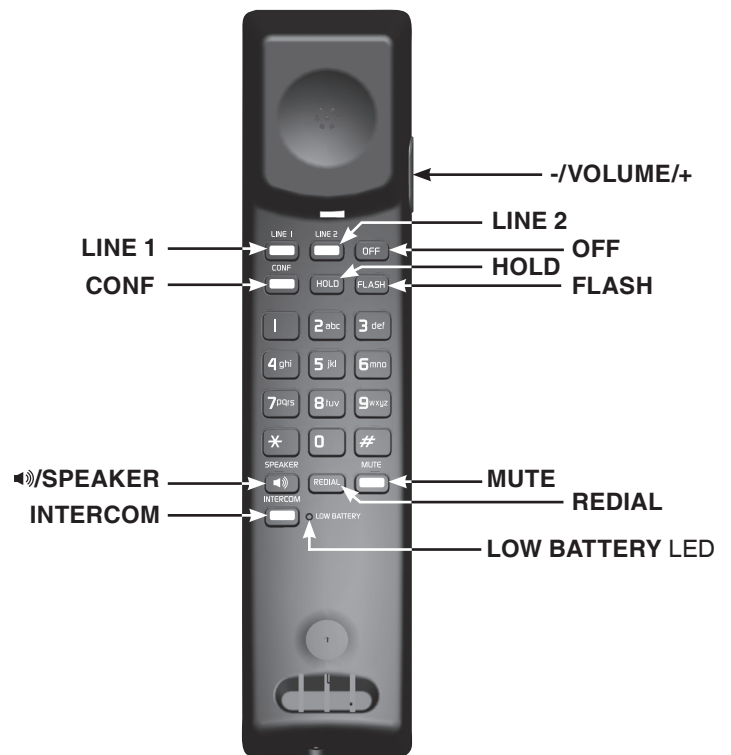
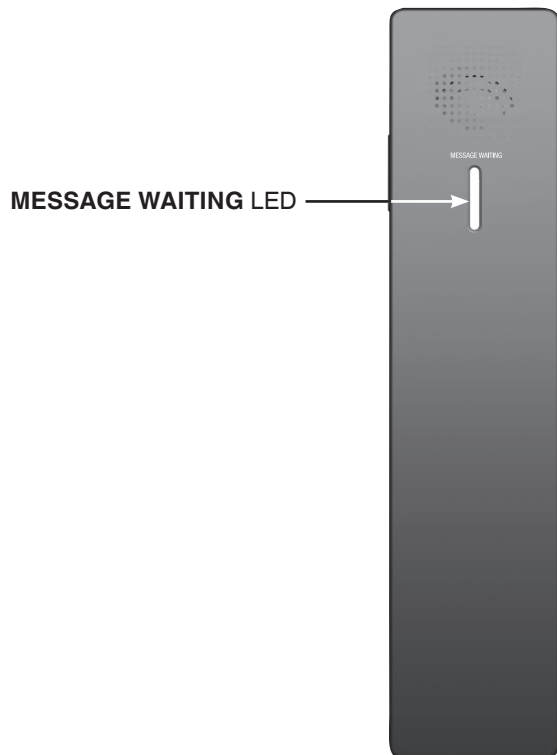
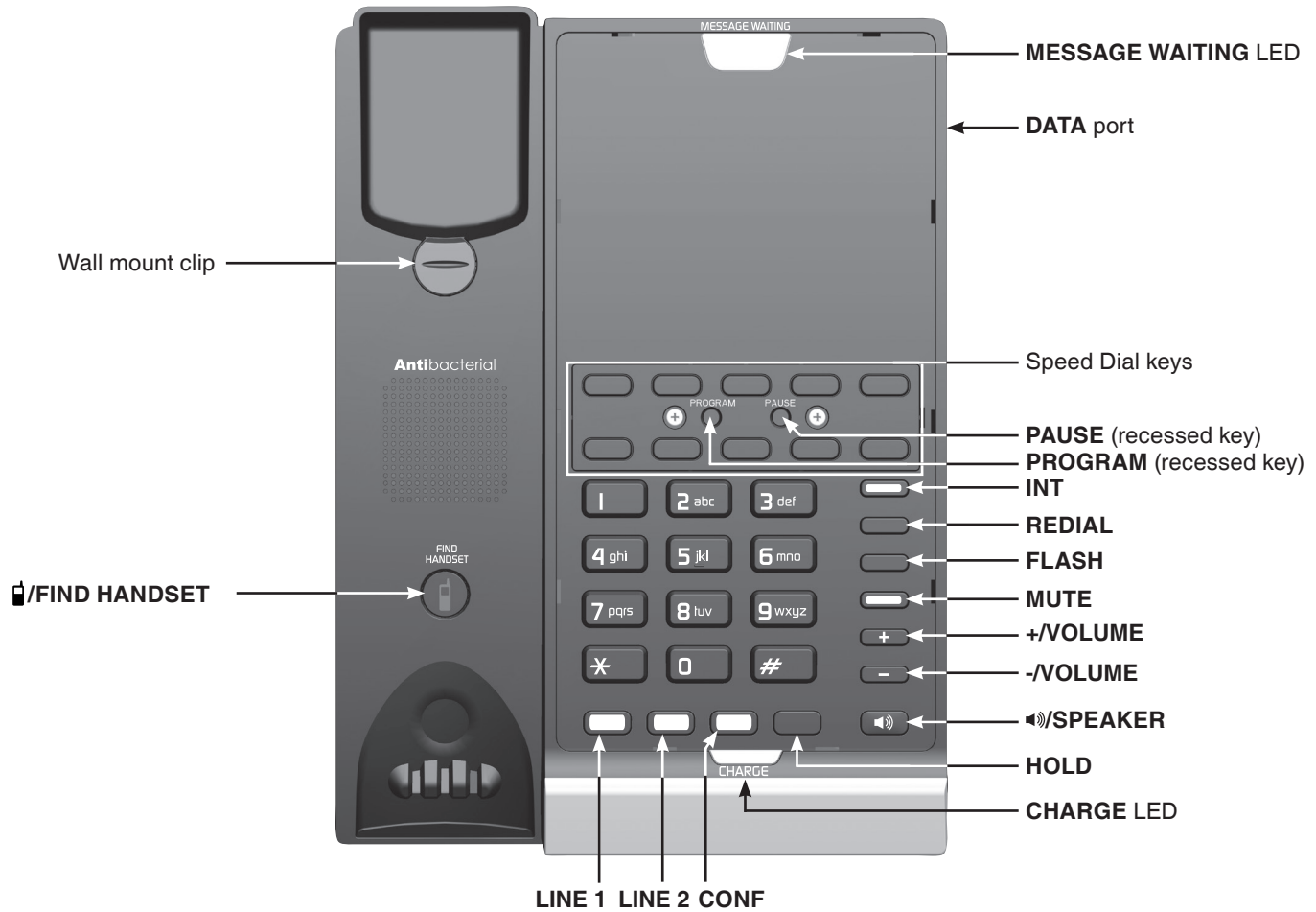
Telephone layout

Analog cordless 1-line accessory handset - C4100



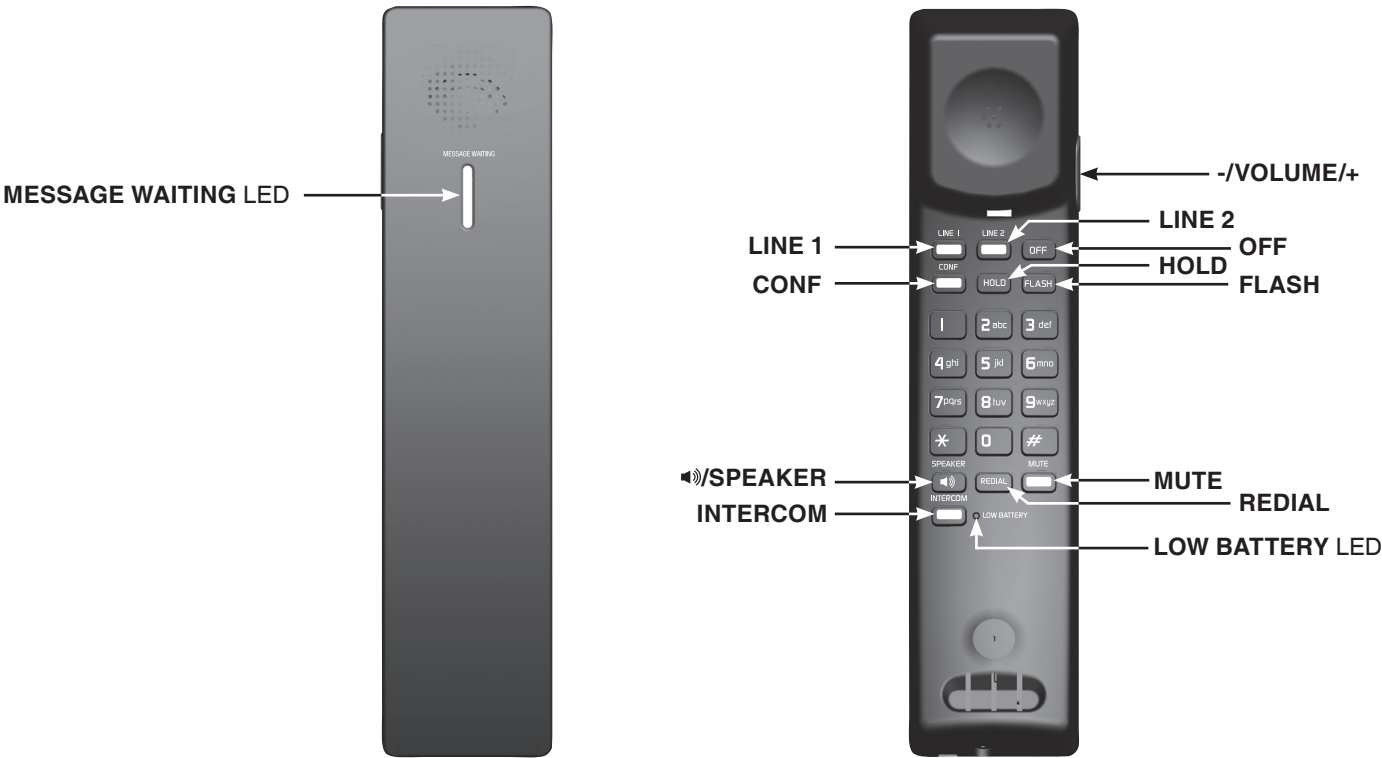
# Telephone layout

## Analog cordless 2-line - A2420



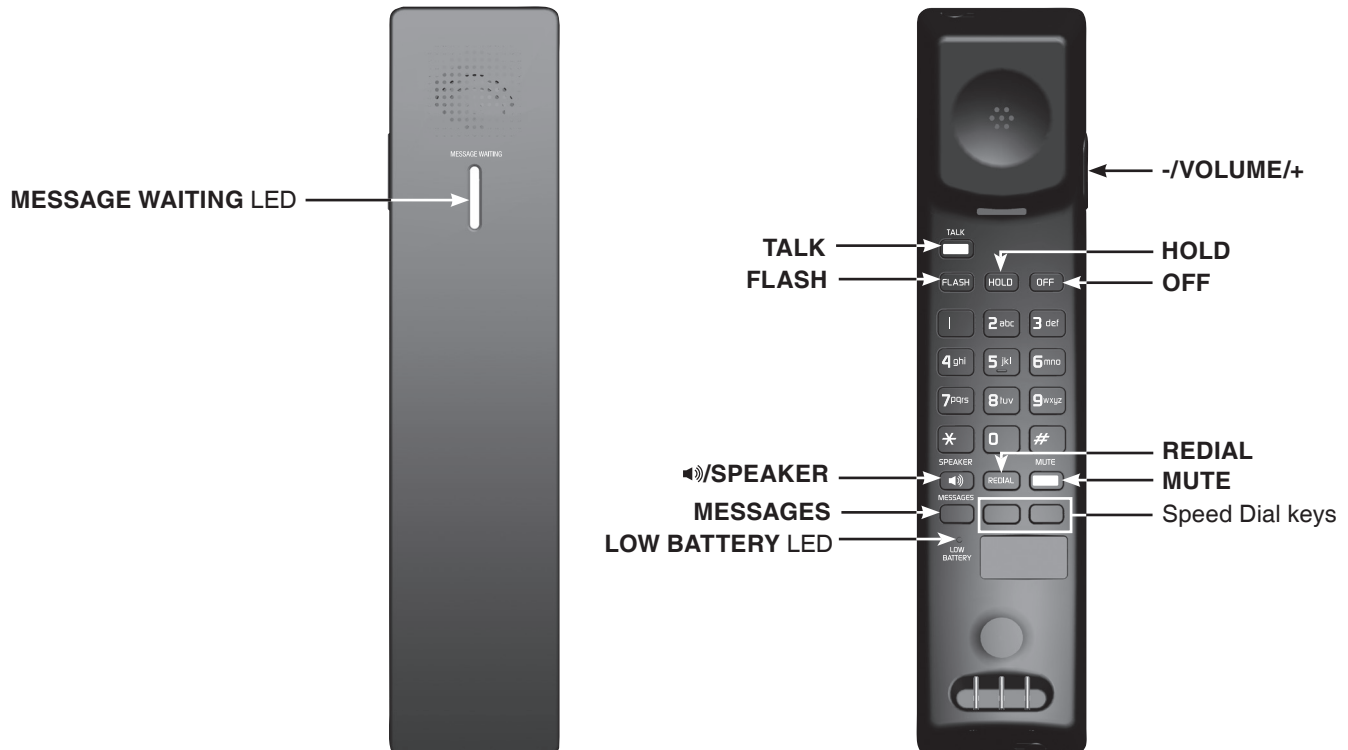
# Telephone layout

## Analog cordless 2-line accessory handset - C4200



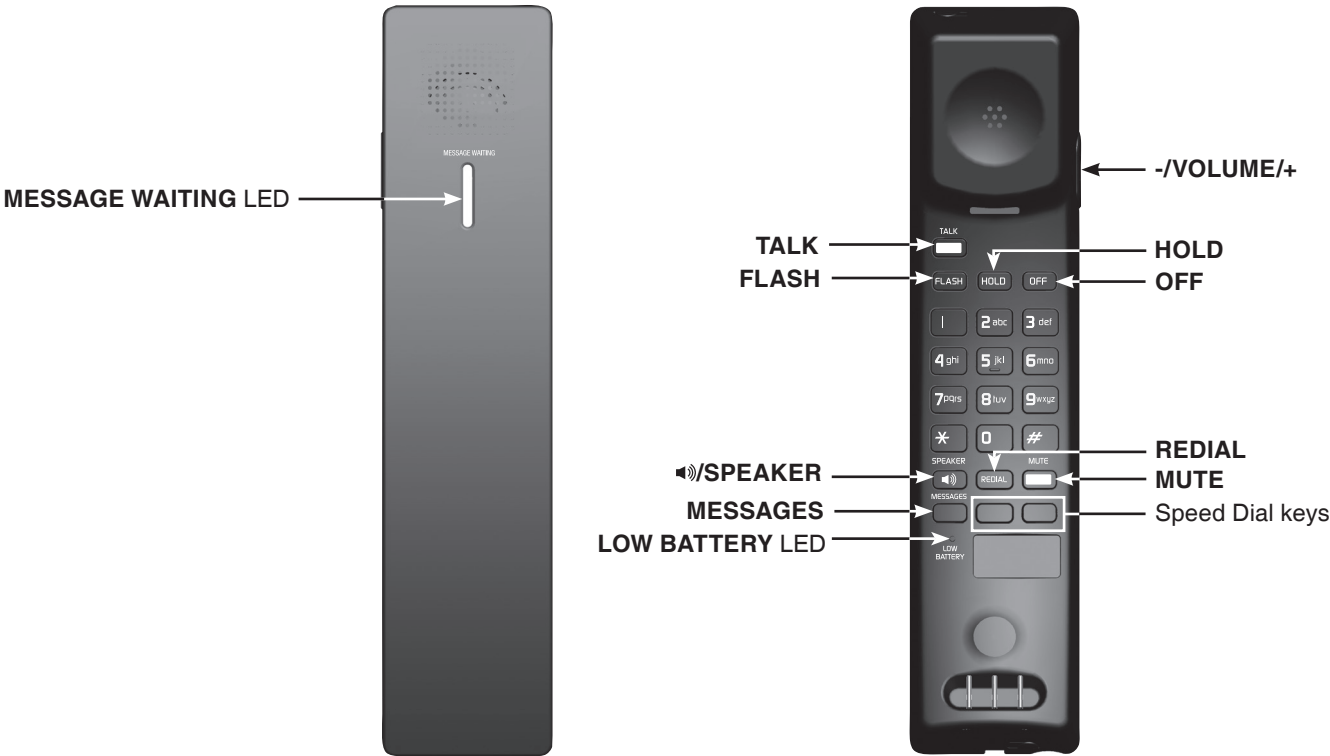
# Telephone layout

## Analog cordless 1-line - CTM-A2411/CTM-A2411-BATT



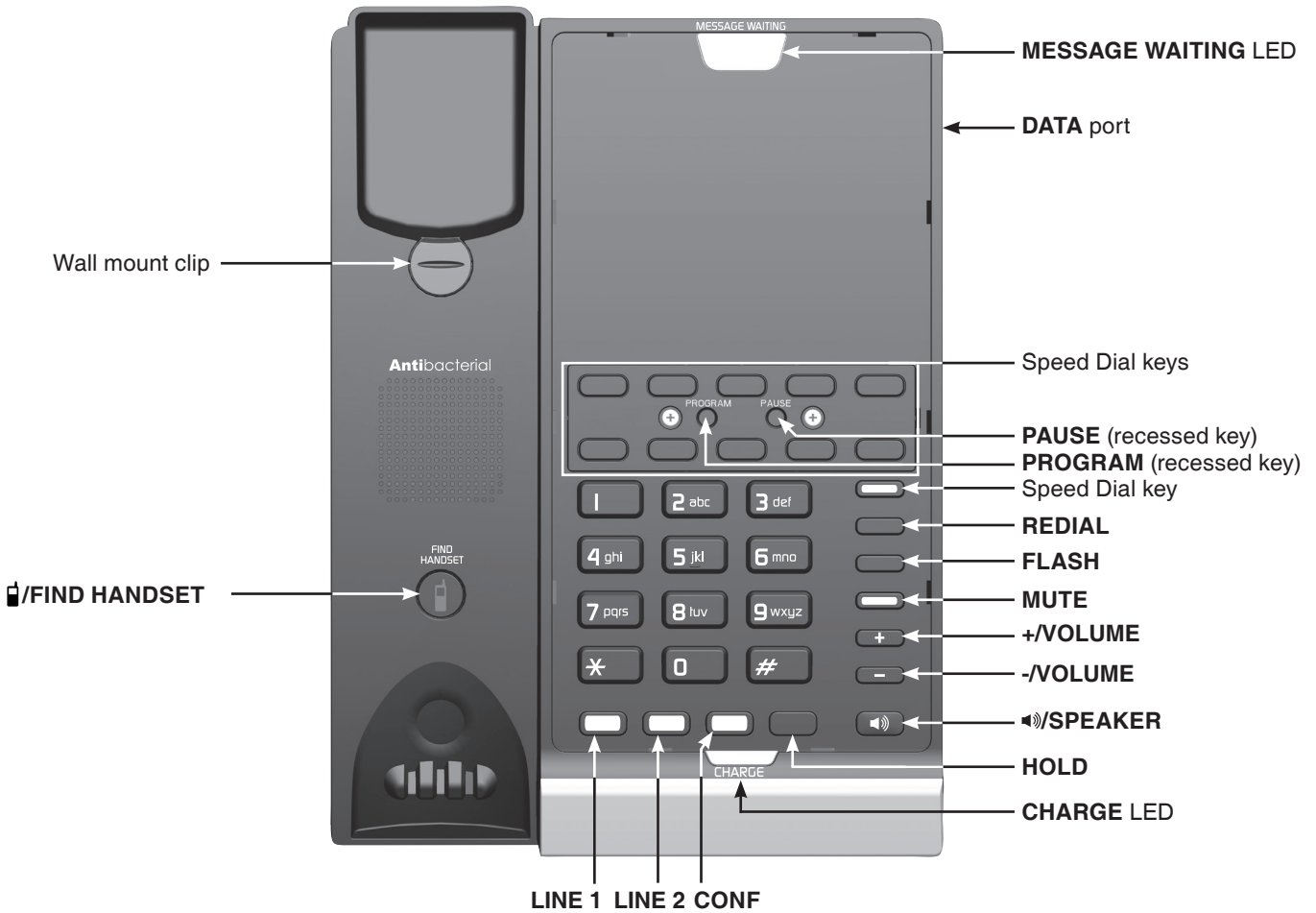
# Telephone layout

## Analog cordless 1-line accessory handset - CTM-C4101

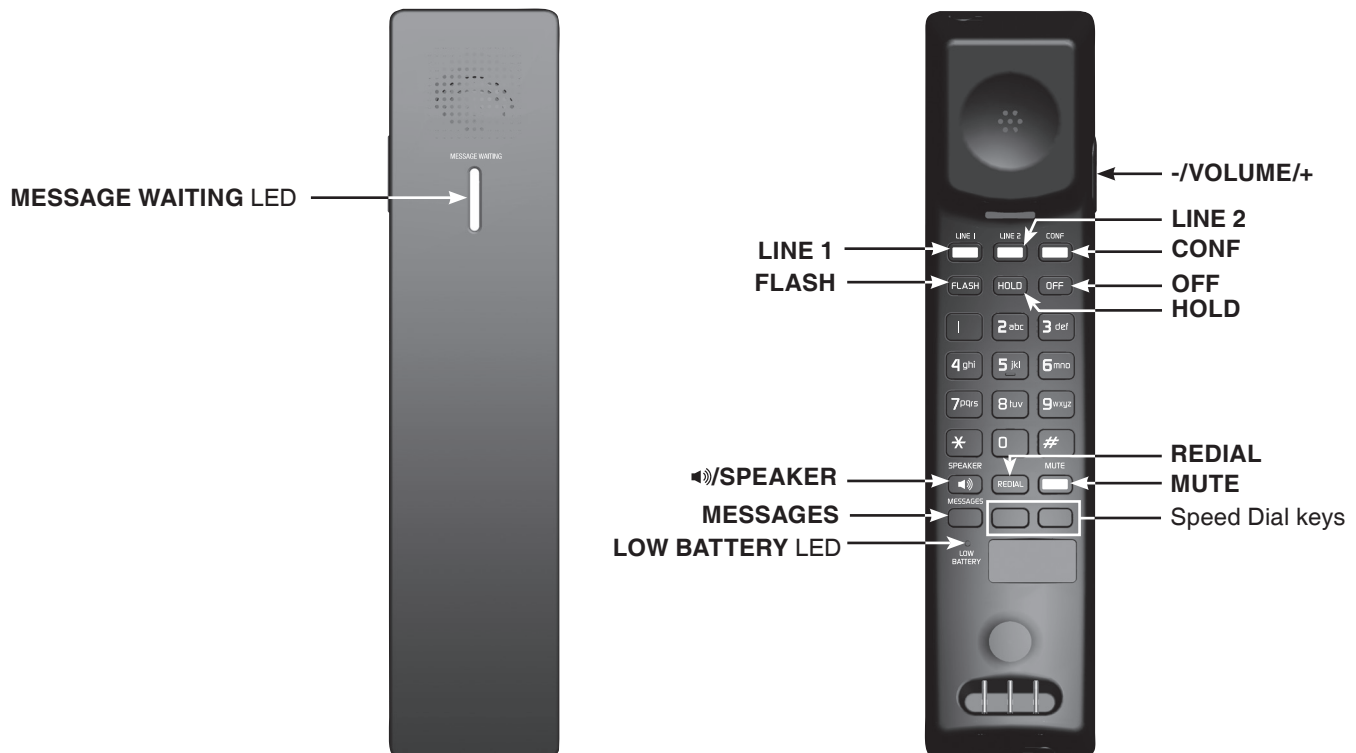


# Telephone layout

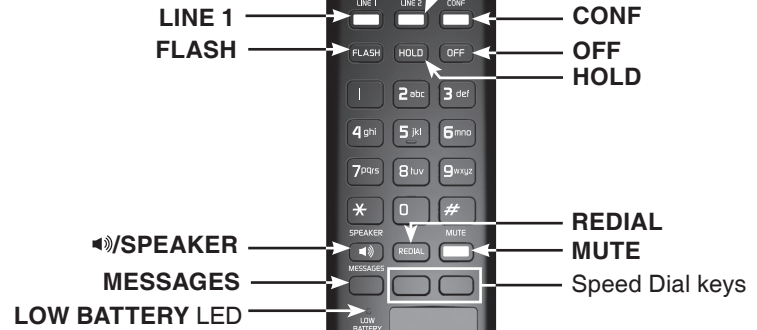
## Analog cordless 2-line - CTM-A2421/CTM-A2421-BATT



Telephone layout



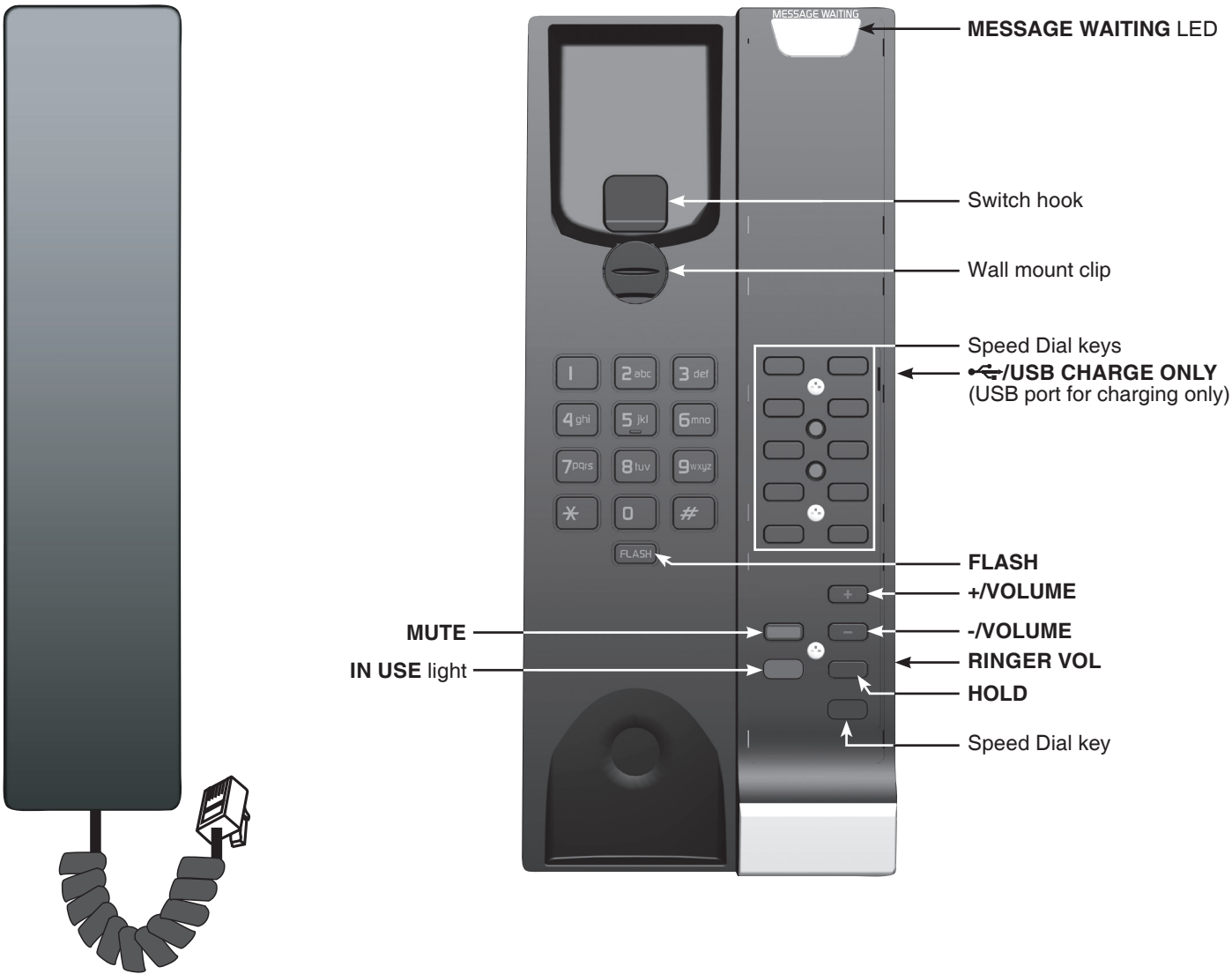
### Analog cordless 2-line accessory handset - CTM-C4201





# Telephone layout

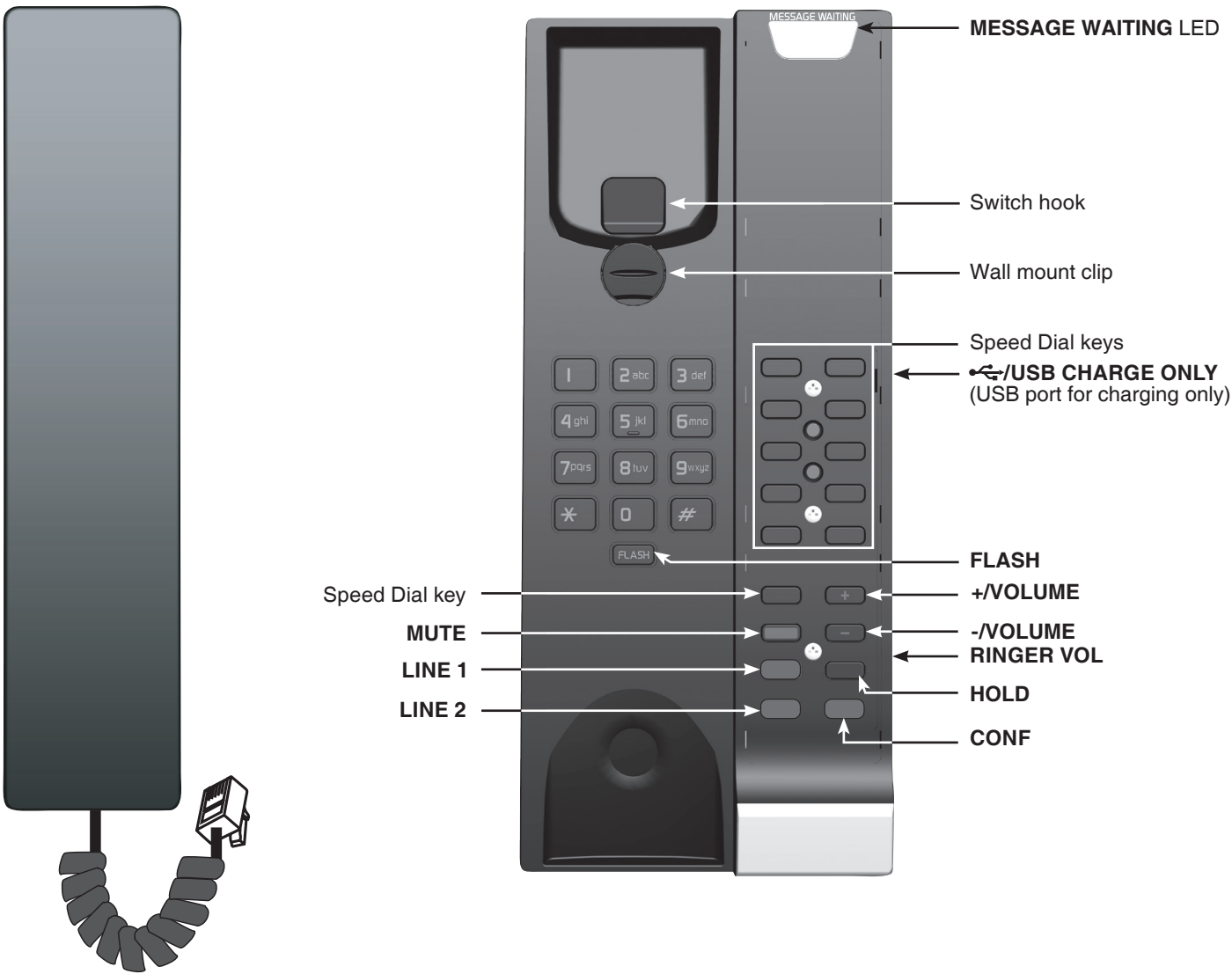
## Analog cordless 1-line accessory Petite - CTM-A241P



Telephone layout

# Telephone layout

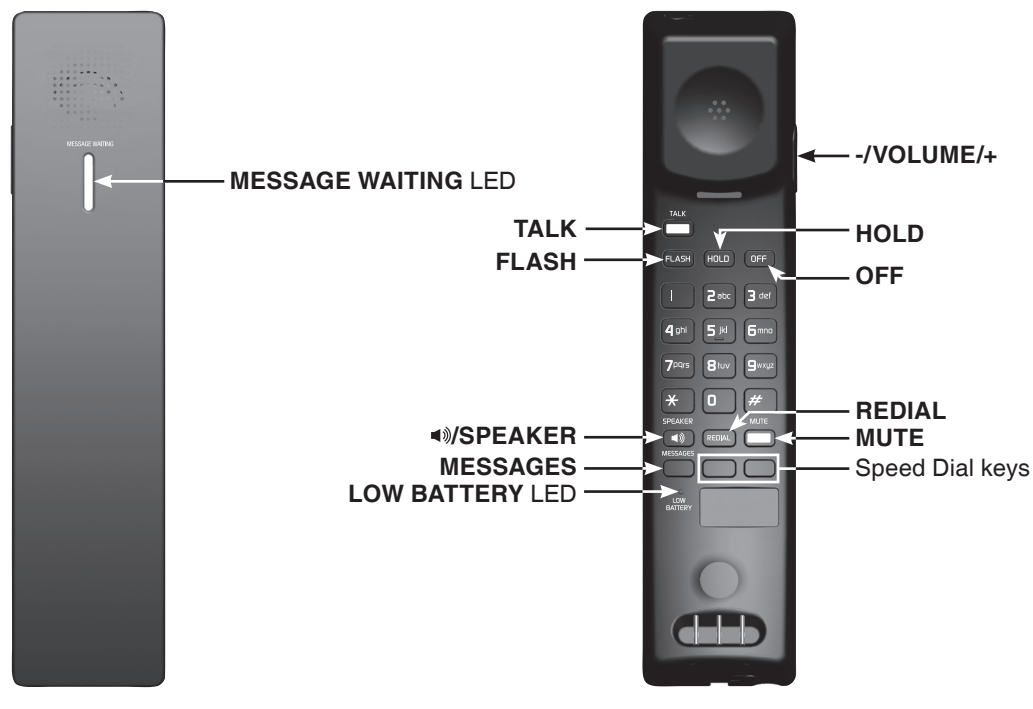
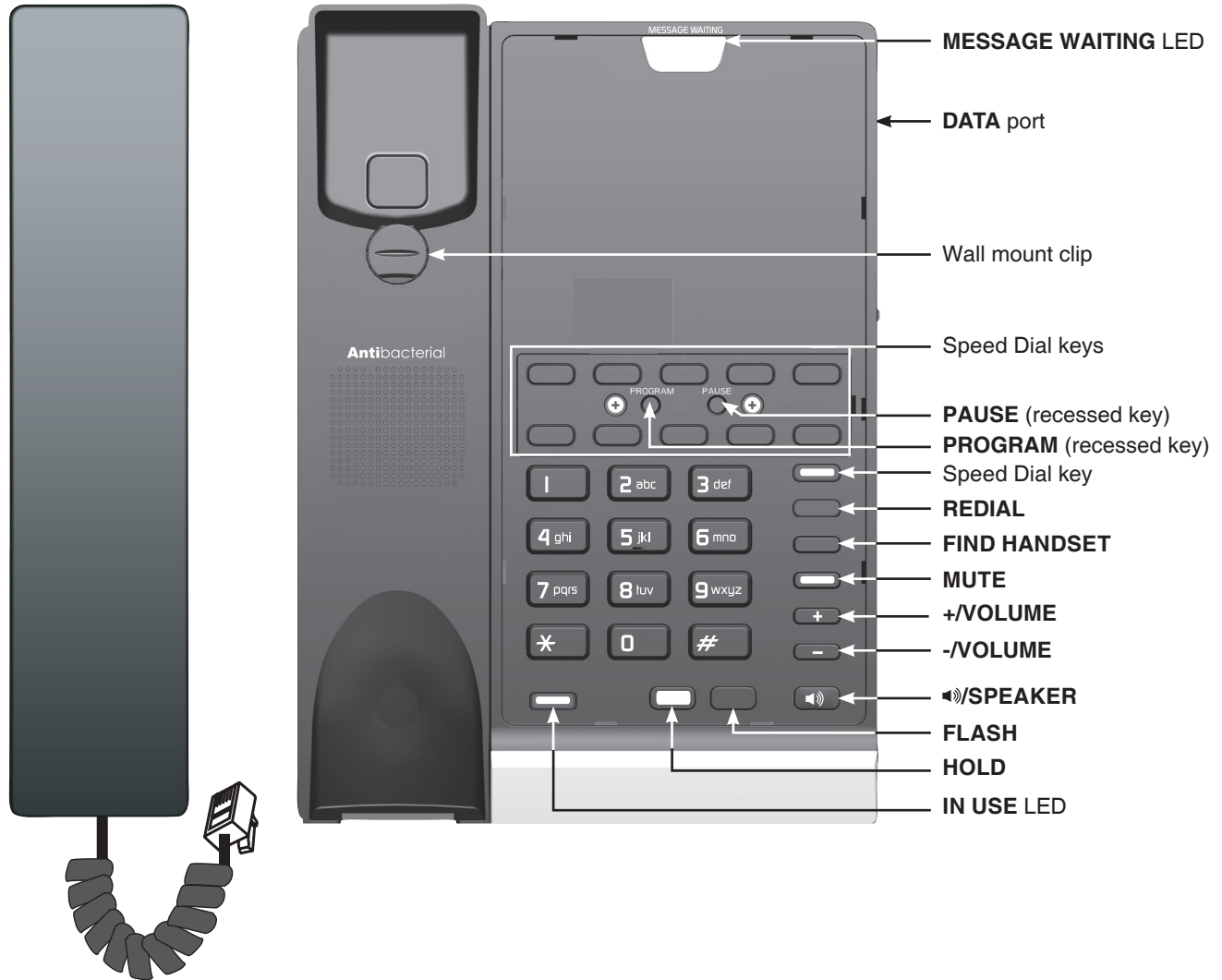
## Analog cordless 2-line accessory Petite - CTM-A242P



# Telephone layout

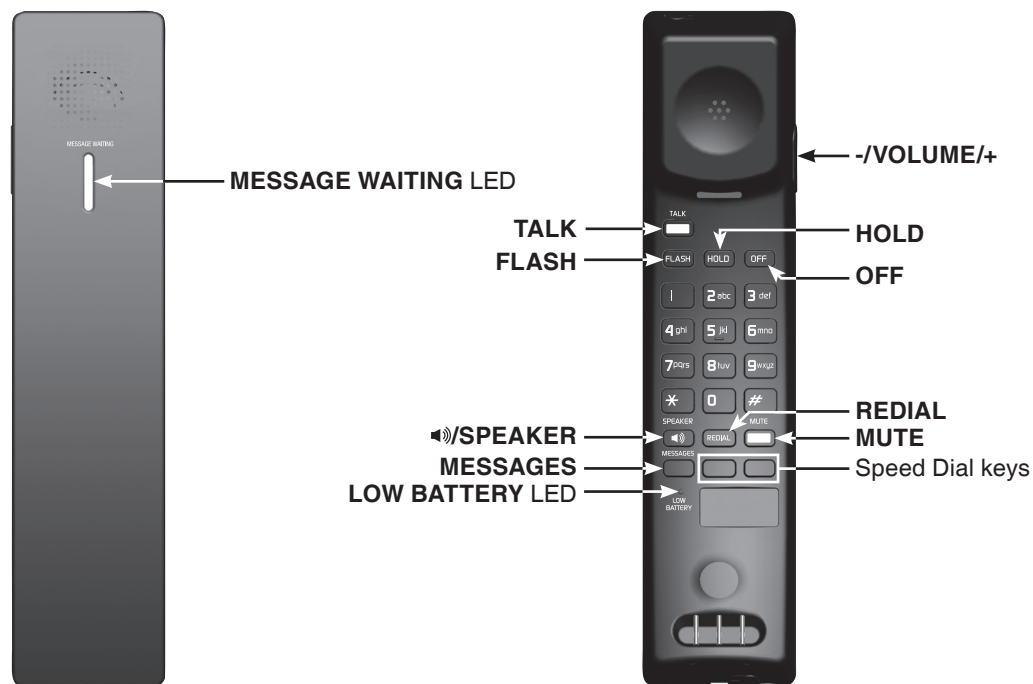
Analog corded/cordless 1-line - CTM-A2510

Telephone layout



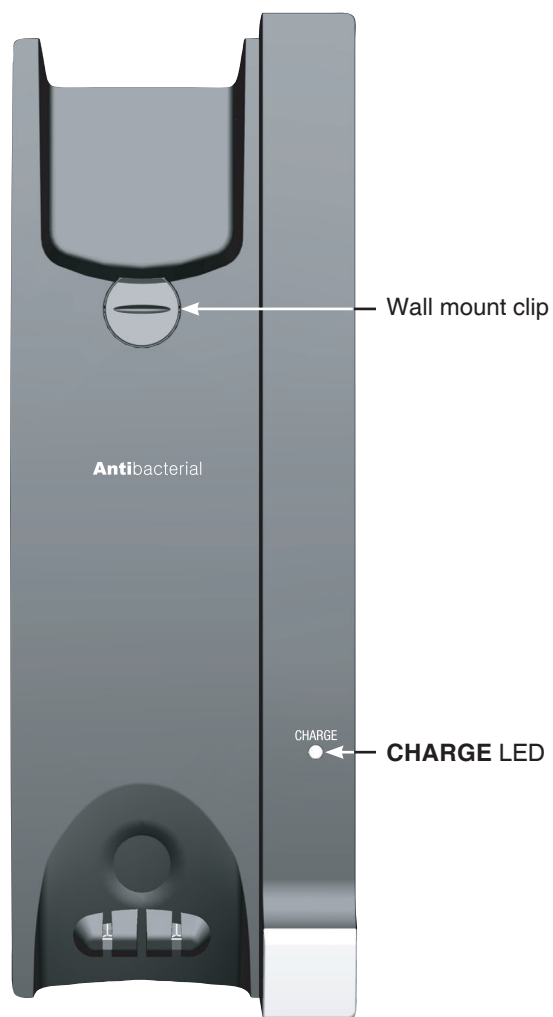
# Telephone layout

## Analog corded/cordless 1-line - CTM-A2510-USB



## Telephone layout

### Analog cordless charging base - C4000/C4001



## Telephone layout

### Analog cordless charging stand - C4010/C4011



## Telephone layout

### Analog cordless charging stand - C4011-USB



CHARGE LED



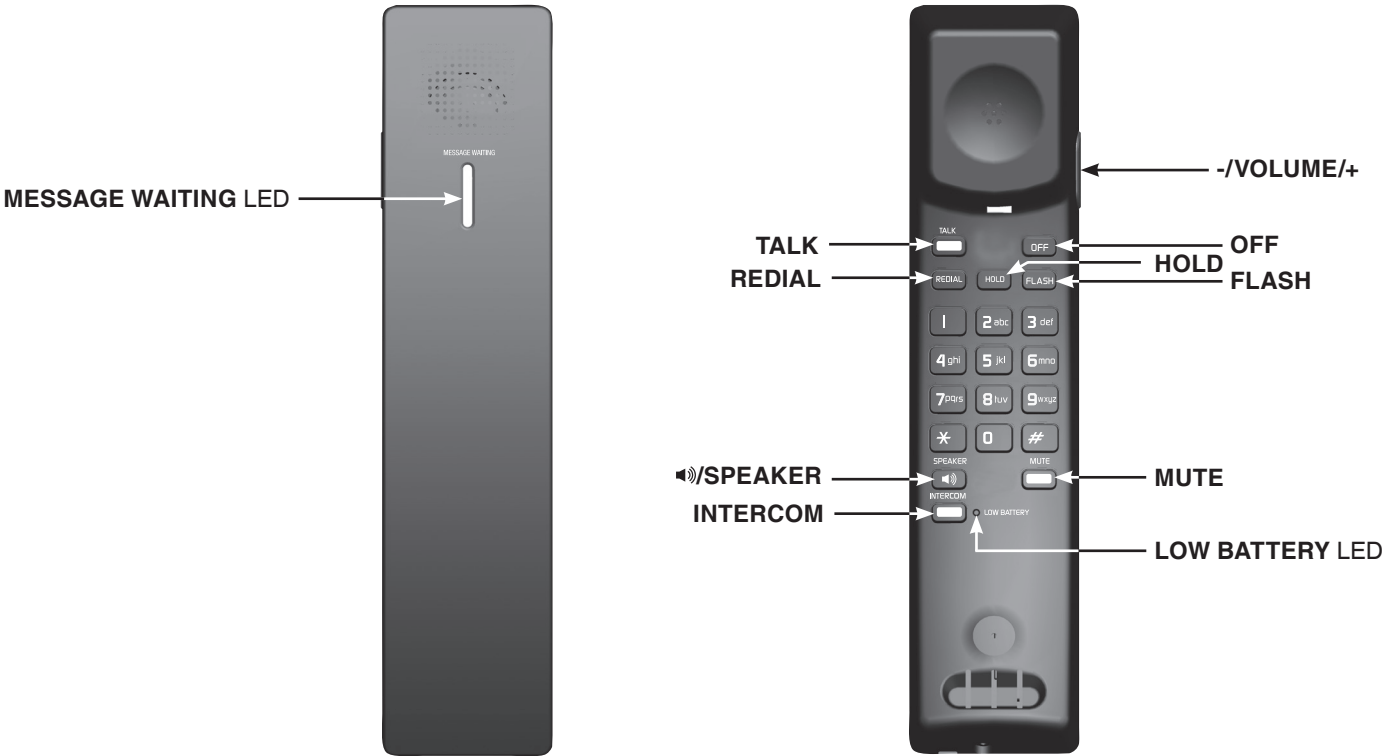
USB charging port (For charging only)

#### NOTE

- The USB charging port on the side of the stand is used for charging devices (up to 1A @ 5.1V).

Telephone layout

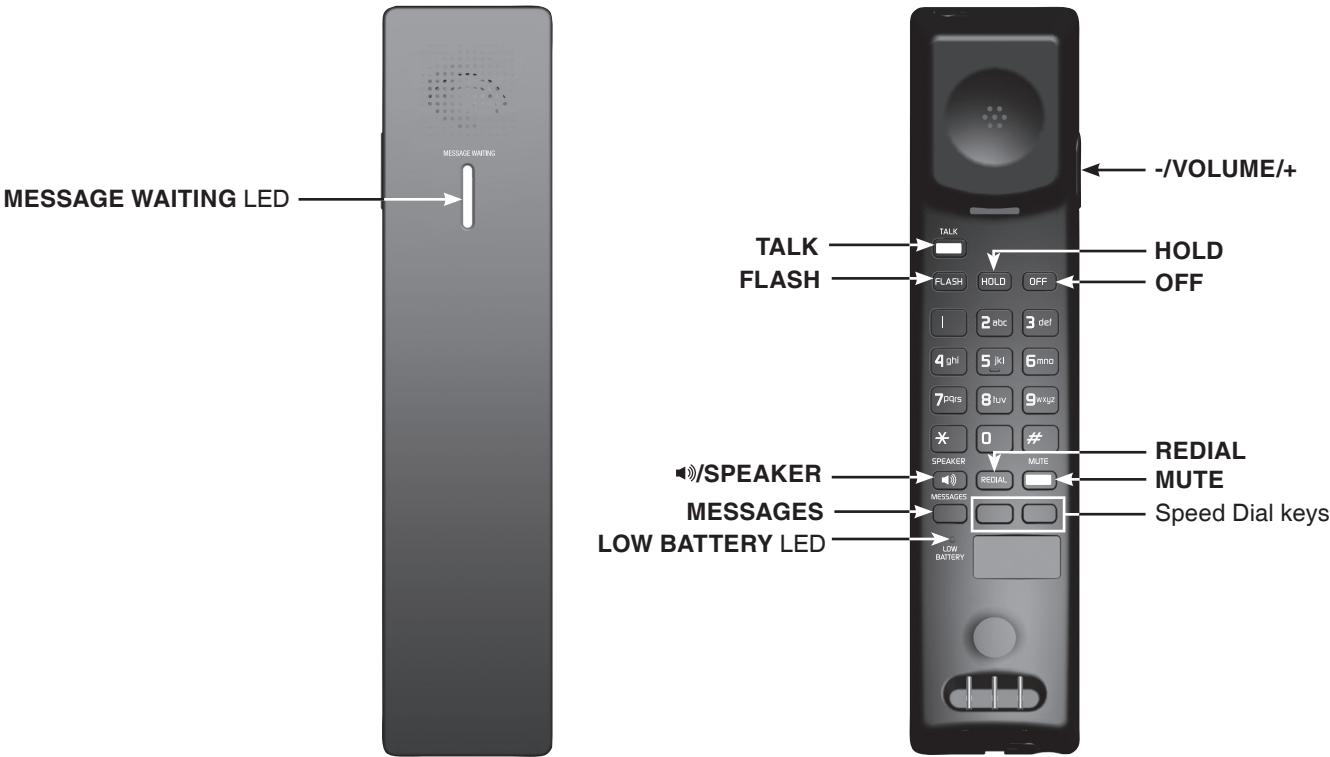
Analog cordless 1-line accessory handset and charger bundle - CTM-A241HS





Telephone layout

Analog cordless 1-line accessory handset with speed dials and charger bundle - CTM-A241SD

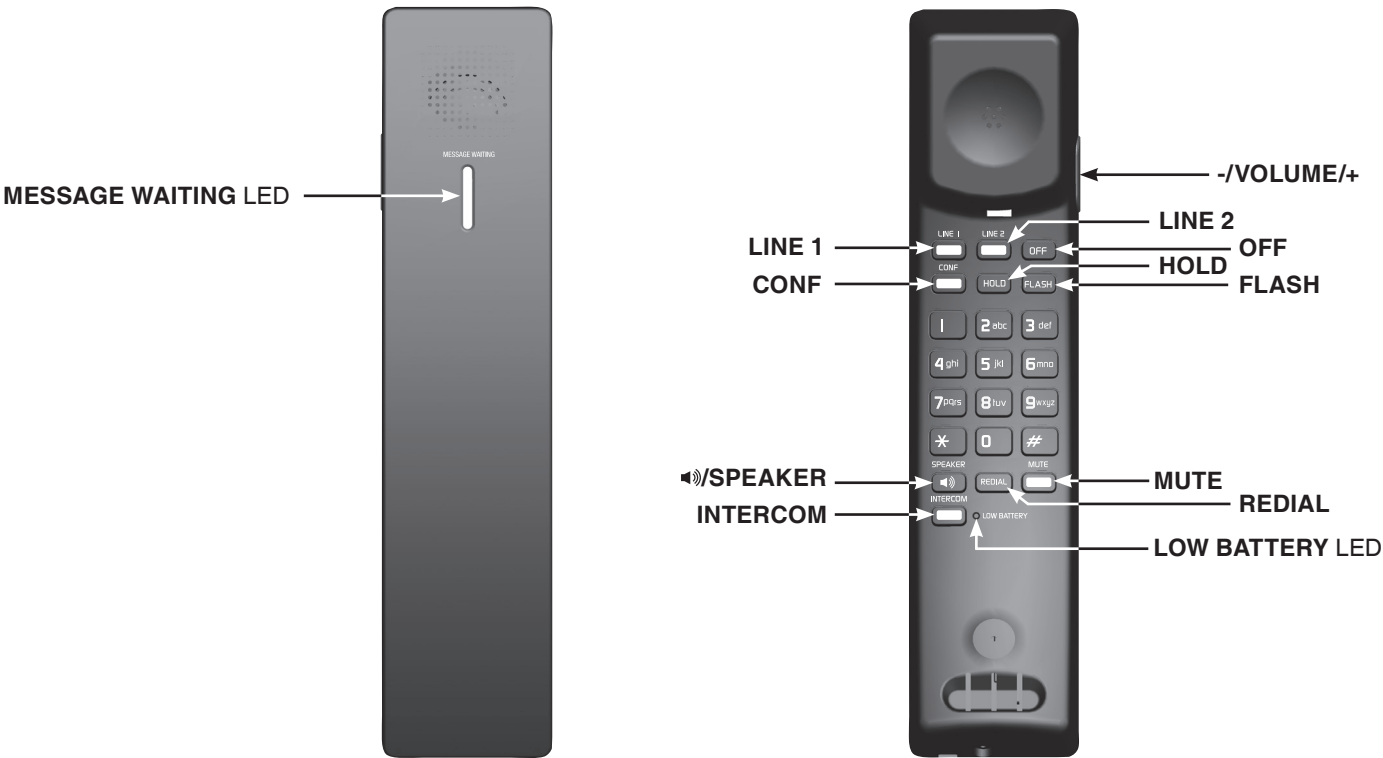


Telephone layout



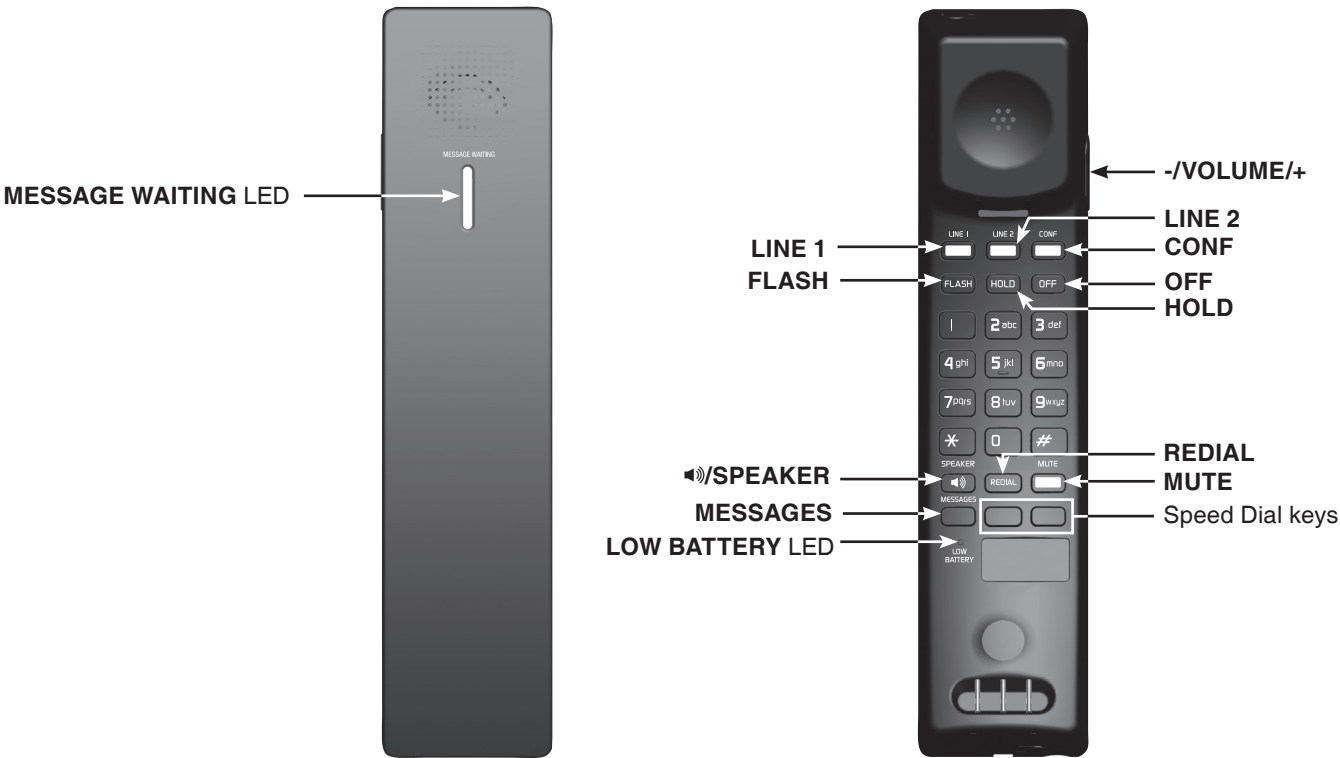
Telephone layout

Analog cordless 2-line accessory handset and charger bundle - CTM-A242HS



Telephone layout

Analog cordless 2-line accessory handset with speed dials and charger bundle - CTM-A242SD



Telephone layout



# Installation

## Analog cordless 1-line/2-line - A2410/CTM-A2411/A2420/CTM-A2421

### Telephone base installation

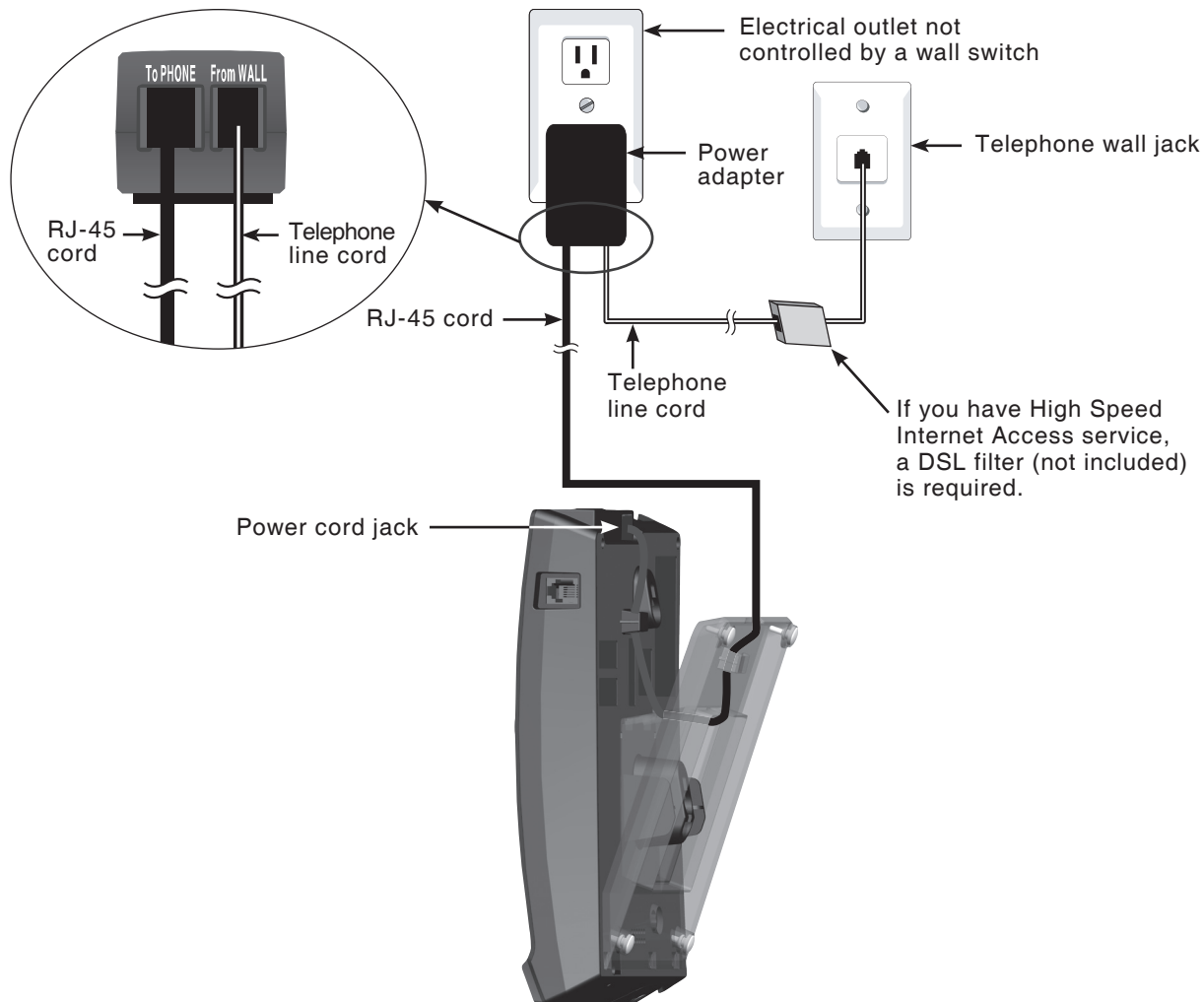
This telephone can be adapted to desktop use or mount on a standard telephone wall plate.

#### Installation option - desktop position

1. Turn the telephone base over with the bottom side facing up. Insert the tabs into the grooves to affix the mounting bracket in place.



2. Plug the power adapter into an electrical outlet not controlled by a wall switch.



3. When the telephone base has been initially installed, press **SPEAKER** on the telephone base. Listen for a dial tone and then press **SPEAKER** again to hang up.

#### CAUTION:

Use only the supplied RJ-45 cord and power adapter. RJ-45 cord is not designed for use in any other IT devices. Misuse of RJ-45 cord on your other IT devices shall be prohibited. To order a replacement, visit our website at [www.vtechhotelphones.com](http://www.vtechhotelphones.com) or call 1-888-907-2007.

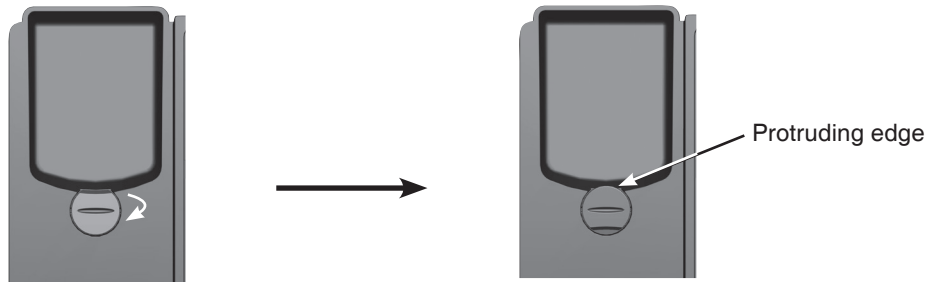
## Installation

### Analog cordless 1-line/2-line - A2410/CTM-A2411/A2420/CTM-A2421

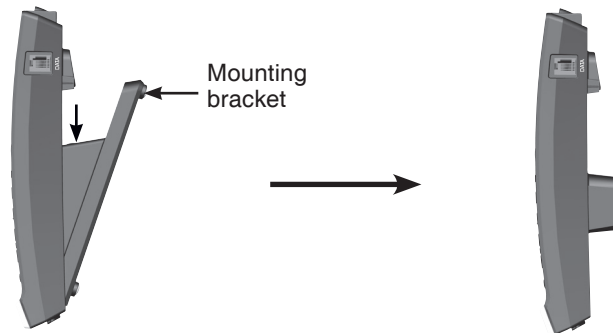
#### Installation option - converting from desktop to wall mount position

##### To mount the telephone base on the wall:

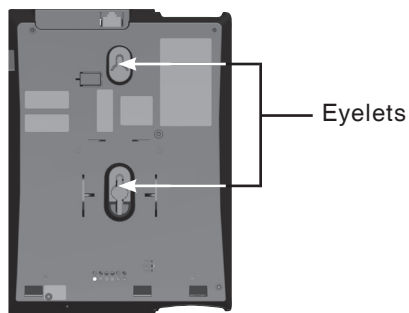
1. Unplug the power adapter and telephone line cord. Disconnect the power cord from the telephone base.
2. Set aside the handset. On the telephone base cradle, place a coin in the slit of the wall mount clip and rotate a half turn (180 degrees). It locks into place with the protruding edge pointing towards the upper edge of the telephone base. This protruding edge holds the handset when the phone is mounted on the wall.



3. Turn the telephone base over with the bottom side facing up. To remove the mounting bracket, firmly push both tabs downward and pull up until both tabs release from the grooves.



4. Mount the telephone base on the wall by aligning the eyelets with the mounting studs of the wall plate. Then slide the telephone base down on both mounting studs until it locks into place.



5. Connect the power cord to the telephone base. Plug the power adapter into an electrical outlet not controlled by a wall switch, and plug the telephone line cord into the telephone wall jack. Then place the cordless handset on the telephone base cradle.

## Installation

### Analog cordless 1-line/2-line - CTM-A2411-BATT/CTM-A2421-BATT

#### Telephone base backup battery installation

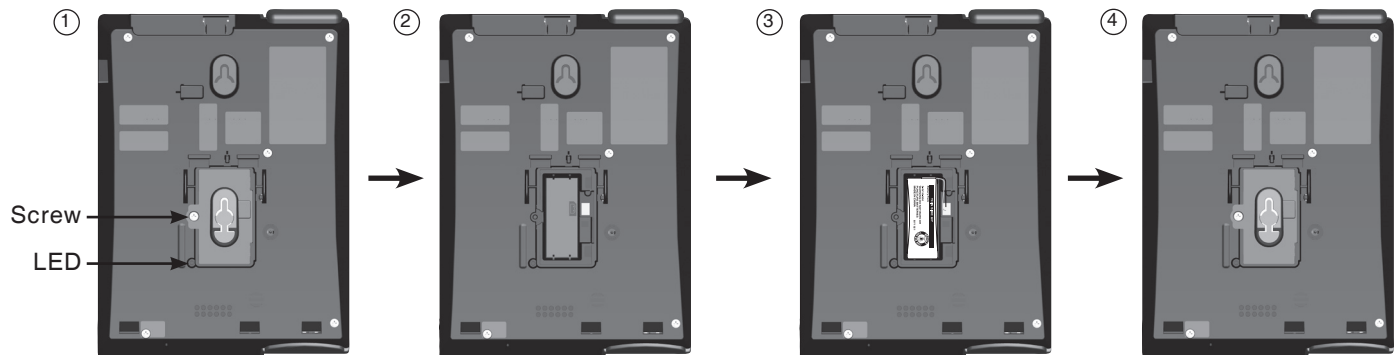
You can install a backup battery in the telephone base to guarantee continual operation during a power outage. The telephone base backup battery only supports complete operation for the telephone base and handset on line 1 during a power outage.

You can buy rechargeable battery (BT264392/BT266342) for the telephone base. When the battery is installed and AC power is connected, the battery will be recharged.

You should replace the installed battery when the LED next to the battery compartment flashes.

Install the battery as shown below.

1. Insert a 5 mm standard screwdriver in the provided slot and then twist and lift to remove the battery compartment cover.
2. Plug the battery connector securely into the socket inside the battery compartment.
3. Place the battery with the label **THIS SIDE UP** facing up and the wires inside the battery compartment.
4. To replace the cover, align all the tabs on the telephone base battery cover against the corresponding grooves on the telephone base, then firmly push downward until all the tabs lock in the grooves. Install the screw at the bottom of the handset.



#### Replace a telephone base backup battery

1. Insert a 5 mm standard screwdriver in the provided slot and then twist and lift to remove the battery compartment cover.
2. Unplug the battery connector from the socket and then remove the battery from the battery compartment.
3. Follow Step 2 to Step 4 in **Telephone base backup battery installation** above to install a new battery.

#### CAUTIONS:

- There may be a risk of explosion if a wrong type of battery is used. Use only rechargeable battery (BT264392/BT266342). To order a battery, visit our website at [www.vtechhotelphones.com](http://www.vtechhotelphones.com) or call 1-888-907-2007.
- Dispose of used batteries according to the information in **The RBRC® seal** on page 72.

## Installation

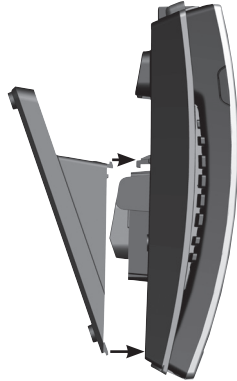
### Analog cordless 1-line/2-line - CTM-A2411-BATT/CTM-A2421-BATT

#### Telephone base installation

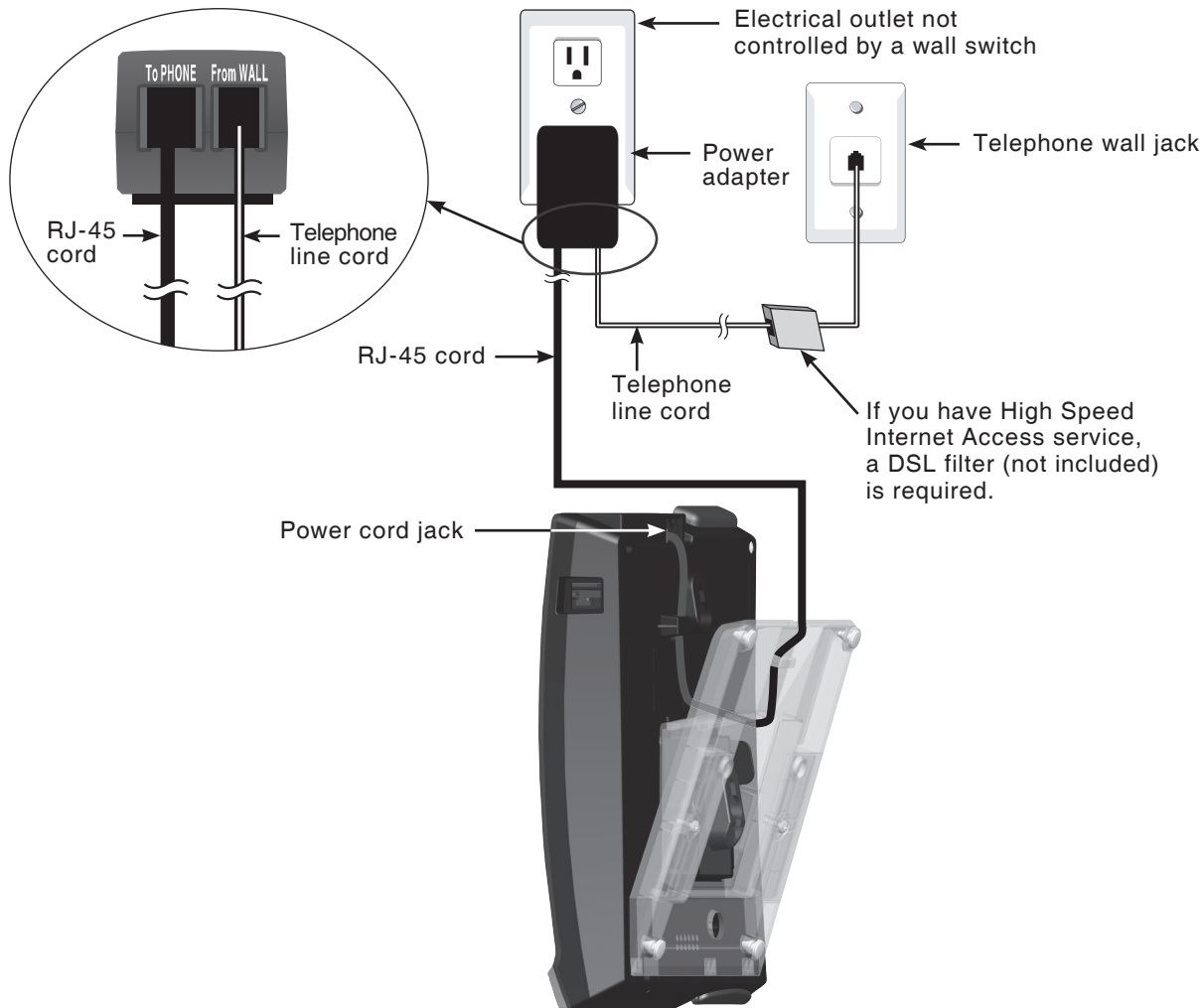
This telephone can be adapted to desktop use or mount on a standard telephone wall plate.

#### Installation option - desktop position

1. Turn the telephone base over with the bottom side facing up. Insert the tabs into the grooves to affix the mounting bracket in place.



2. Plug the power adapter into an electrical outlet not controlled by a wall switch.



3. When the telephone base has been initially installed, press **⏏/SPEAKER** on the telephone base. Listen for a dial tone and then press **⏏/SPEAKER** again to hang up.

#### CAUTION:

Use only the supplied RJ-45 cord and power adapter. RJ-45 cord is not designed for use in any other IT devices. Misuse of RJ-45 cord on your other IT devices shall be prohibited. To order a replacement, visit our website at [www.vtechhotelphones.com](http://www.vtechhotelphones.com) or call 1-888-907-2007.

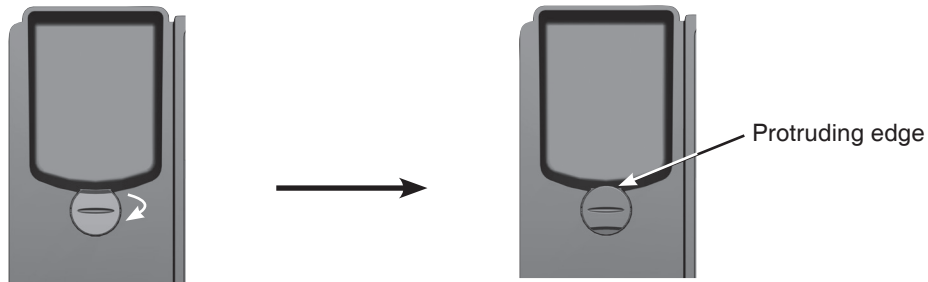
## Installation

### Analog cordless 1-line/2-line - CTM-A2411-BATT/CTM-A2421-BATT

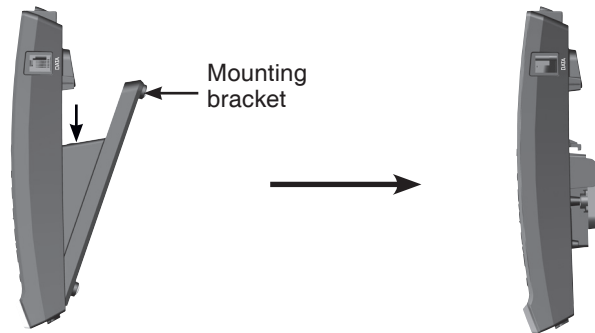
#### Installation option - converting from desktop to wall mount position

##### To mount the telephone base on the wall:

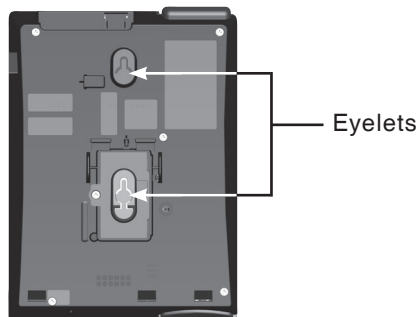
1. Unplug the power adapter and telephone line cord. Disconnect the power cord from the telephone base.
2. Set aside the handset. On the telephone base cradle, place a coin in the slit of the wall mount clip and rotate a half turn (180 degrees). It locks into place with the protruding edge pointing towards the upper edge of the telephone base. This protruding edge holds the handset when the phone is mounted on the wall.



3. Turn the telephone base over with the bottom side facing up. To remove the mounting bracket, firmly push both tabs downward and pull up until both tabs release from the grooves.



4. Mount the telephone base on the wall by aligning the eyelets with the mounting studs of the wall plate. Then slide the telephone base down on both mounting studs until it locks into place.



5. Connect the power cord to the telephone base. Plug the power adapter into an electrical outlet not controlled by a wall switch, and plug the telephone line cord into the telephone wall jack. Then place the cordless handset on the telephone base cradle.



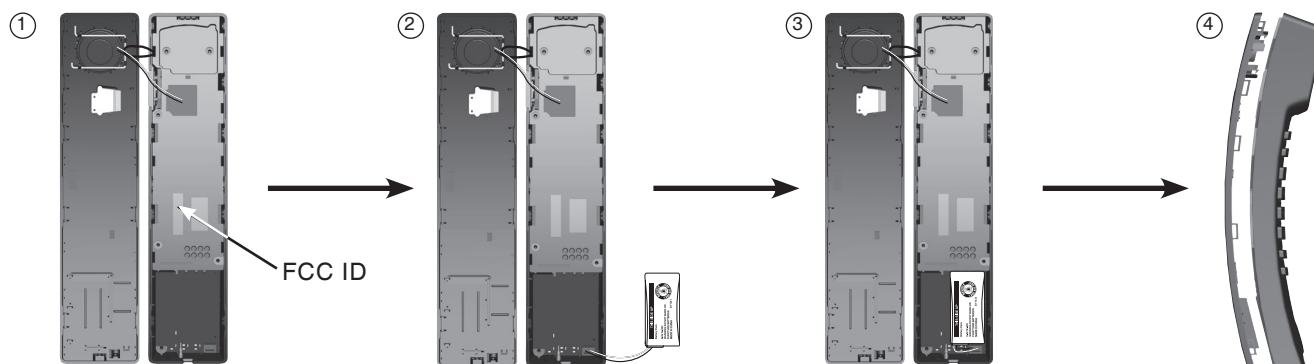
# Installation

## Analog cordless 1-line/2-line - A2410/A2420

### Handset battery installation

Install the battery as shown below.

1. Gently lift the handset cover. Do not detach the speaker wires between the handset cover and the handset.
2. Plug the battery connector securely into the socket inside the handset battery compartment.
3. Place the battery with the label **THIS SIDE UP** facing up and the wires inside the battery compartment.
4. To replace the handset cover, align all the tabs on the handset cover against the corresponding grooves on the handset, then firmly push downward until all the tabs lock in the grooves. Then install the screw at the bottom of the handset.



### Replace a handset battery

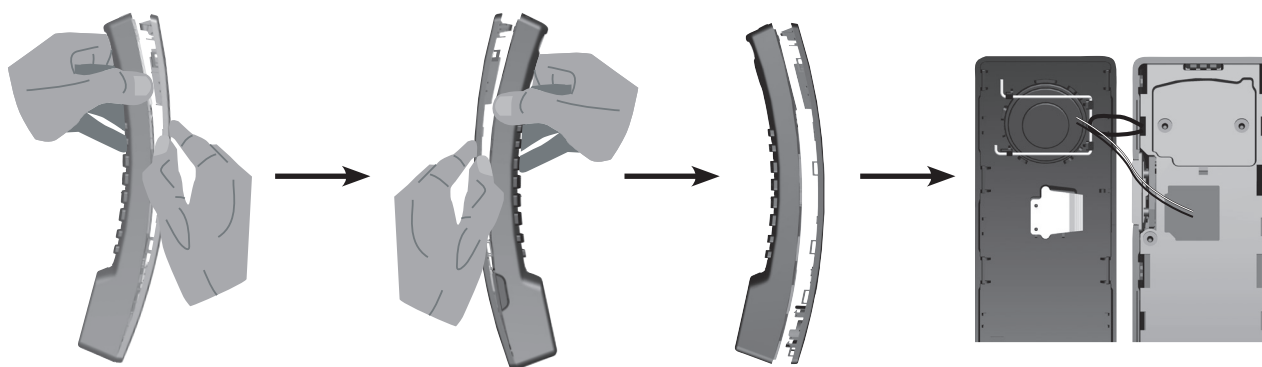
1. Use a 5 mm standard screwdriver to open the screw cover and remove the screw. Insert the screwdriver in the provided slot and then twist and lift to open the bottom part.



2. Use your thumb to slide along the sides of the handset carefully to release the tabs on the handset cover from the slots on the sides of the handset. Then gently detach the handset cover from the handset.



Do not detach the speaker wires between the handset cover and the handset.



3. Unplug the battery connector from the socket and then remove the battery from the handset battery compartment.
4. Follow Step 2 to Step 4 in **Handset battery installation** above to install a new battery.

### CAUTIONS:

- There may be a risk of explosion if a wrong type of handset battery is used. Use only the supplied rechargeable battery (BT264392/BT266342) or replacement battery (BT266342). To order a replacement, visit our website at [www.vtechhotelphones.com](http://www.vtechhotelphones.com) or call 1-888-907-2007.
- FCC ID is shown on the back of the cordless handset body after the handset cover is removed.
- Dispose of used batteries according to the information in **The RBRC® seal** on page 72.

# Installation

## Analog cordless 1-line/2-line - A2410/A2420

### Handset registration

Place the cordless handset on the telephone base cradle. Handset registration happens automatically the first time a cordless handset is placed on the telephone base. When the registration process completes, the **MESSAGE WAITING** LED flashes once and you hear 3 rising beeps as confirmation. Each telephone base accommodates up to 4 cordless handsets. When the telephone base has already registered 4 cordless handsets, one of the registered cordless handsets must be deregistered or registered to another telephone base before adding a new cordless handset.

### Handset deregistration

When a registered cordless handset is idle, press **\*331734#** and then press **HOLD**. You hear 3 rising beeps as confirmation when the deregistration process completes.

### Register a handset to another telephone base

Any **A2410** handset can register to any **A2410** telephone base. Any **A2420** handset can register to any **A2420** telephone base.

When a registered cordless handset is idle, place it on another telephone base. This cordless handset automatically registers to the new telephone base.

### Handset battery charging

The battery must be fully charged before using the cordless handset for the first time. The **CHARGE** LED turns on when the cordless handset is charging on the telephone base, charging base or charging stand. The battery is fully charged after 16 hours of continuous charging. For best performance, keep the cordless handset in the telephone base, charging base or charging stand when not in use.

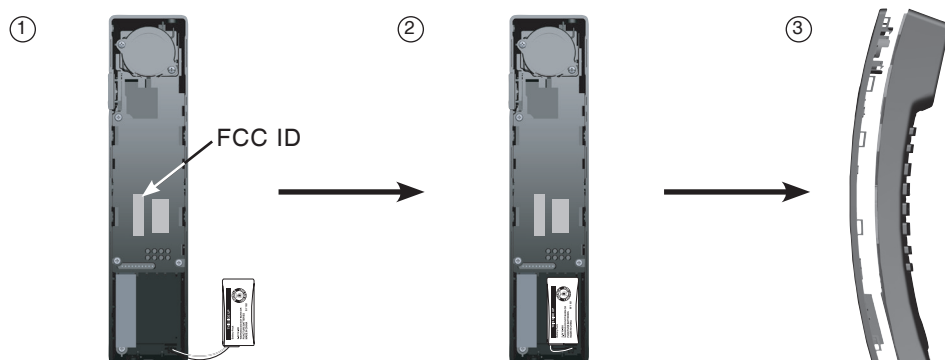
## Installation

### Analog cordless 1-line/2-line - CTM-A2411/CTM-A2411-BATT/CTM-A2421/CTM-A2421-BATT

#### Handset battery installation

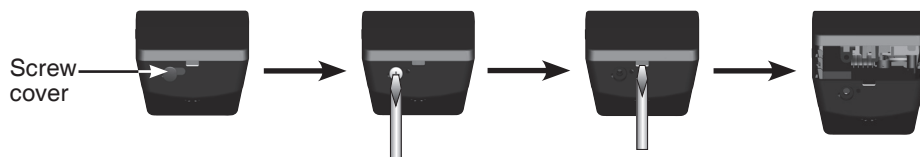
Install the battery as shown below.

1. Plug the battery connector securely into the socket inside the handset battery compartment.
2. Place the battery with the label **THIS SIDE UP** facing up and the wires inside the battery compartment.
3. To replace the handset cover, align all the tabs on the handset cover against the corresponding grooves on the handset, then firmly push downward until all the tabs lock in the grooves. Then install the screws at both ends of the handset.



#### Replace a handset battery

1. Use a 5 mm standard screwdriver to open the screw cover and remove the screw.
2. Insert the screwdriver in the provided slot and then twist and lift to open the bottom part.

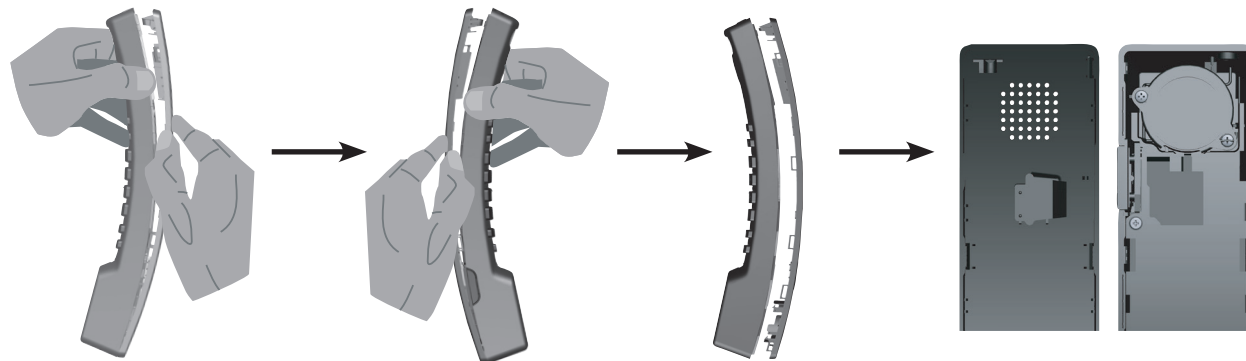


**-OR-**

Open the bottom part manually at the recessed area to avoid scratching the plastic.



3. Use your thumb to slide along the sides of the handset carefully to release the tabs on the handset cover from the slots on the sides of the handset. Then gently detach the handset cover from the handset.



4. Unplug the battery connector from the socket and then remove the battery from the handset battery compartment.
5. Follow Step 2 to Step 4 in **Handset battery installation** above to install a new battery.

#### CAUTIONS:

- There may be a risk of explosion if a wrong type of handset battery is used. Use only the supplied rechargeable battery (BT264392/BT266342) or replacement battery (BT266342). To order a replacement, visit our website at [www.vtechhotelphones.com](http://www.vtechhotelphones.com) or call 1-888-907-2007.
- FCC ID is shown on the back of the cordless handset body after the handset cover is removed.
- Dispose of used batteries according to the information in **The RBRC® seal** on page 72.

## Installation

### Analog cordless 1-line/2-line - CTM-A2411/CTM-A2411-BATT/CTM-A2421/CTM-A2421-BATT

#### Handset registration

##### To register a cordless handset to the telephone base:

Place the cordless handset on the telephone base cradle. Handset registration happens automatically the first time a cordless handset is placed on the telephone base. When the registration process completes, the **MESSAGE WAITING** LED flashes once and you hear 3 rising beeps as confirmation. Each telephone base accommodates up to 4 cordless handsets or accessory Petite phones. When the telephone base has already registered 4 cordless handsets or accessory Petite phones, one of the registered cordless handsets or accessory Petite phones must be deregistered or registered to another telephone base before adding a new cordless handset or accessory Petite phone.

##### To register a cordless handset to the telephone base without placing it on the telephone base:

When the telephone base is idle, press **123** on the telephone base and then press **HOLD**. The **MESSAGE WAITING** LED on the base turns on for about 90 seconds. Press **123** on the cordless handset and then press **HOLD**. The **MESSAGE WAITING** LED on the handset turns on for 90 seconds. When the registration process completes, you hear 3 rising beeps as confirmation. When the telephone base has already registered 4 cordless handsets or accessory Petite phones, one of the registered cordless handsets or accessory Petite phones must be deregistered or registered to another telephone base before adding a new cordless handset or accessory Petite phone.

#### Handset deregistration

When a registered cordless handset is idle, press **\*331734#** and then press **HOLD**. You hear 3 rising beeps as confirmation when the deregistration process completes.

#### Register a handset to another telephone base

Any **CTM-A2411/CTM-A2411-BATT** handset can register to any **A2410/CTM-A2411/CTM-A2411-BATT** telephone base. Any **CTM-A2421/CTM-A2421-BATT** handset can register to any **A2420/CTM-A2421/CTM-A2421-BATT** telephone base.

When a registered cordless handset is idle, place it on another telephone base. This cordless handset automatically registers to the new telephone base.

#### Handset battery charging

The battery must be fully charged before using the cordless handset for the first time. The **CHARGE** LED turns on when the cordless handset is charging on the telephone base, charging base or charging stand. The battery is fully charged after 16 hours of continuous charging. For best performance, keep the cordless handset in the telephone base, charging base or charging stand when not in use.

## Installation

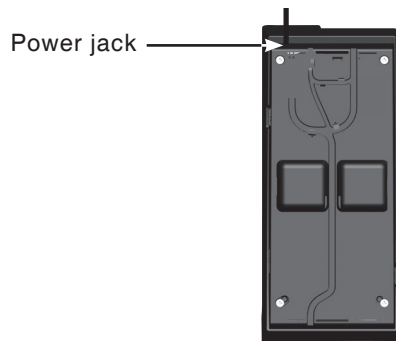
### Analog cordless 1-line/2-line accessory Petite - CTM-A241P/CTM-A242P

#### Accessory Petite installation

The telephone can be adapted to desktop use or mounted on a standard telephone wall plate.

#### Installation option - desktop position

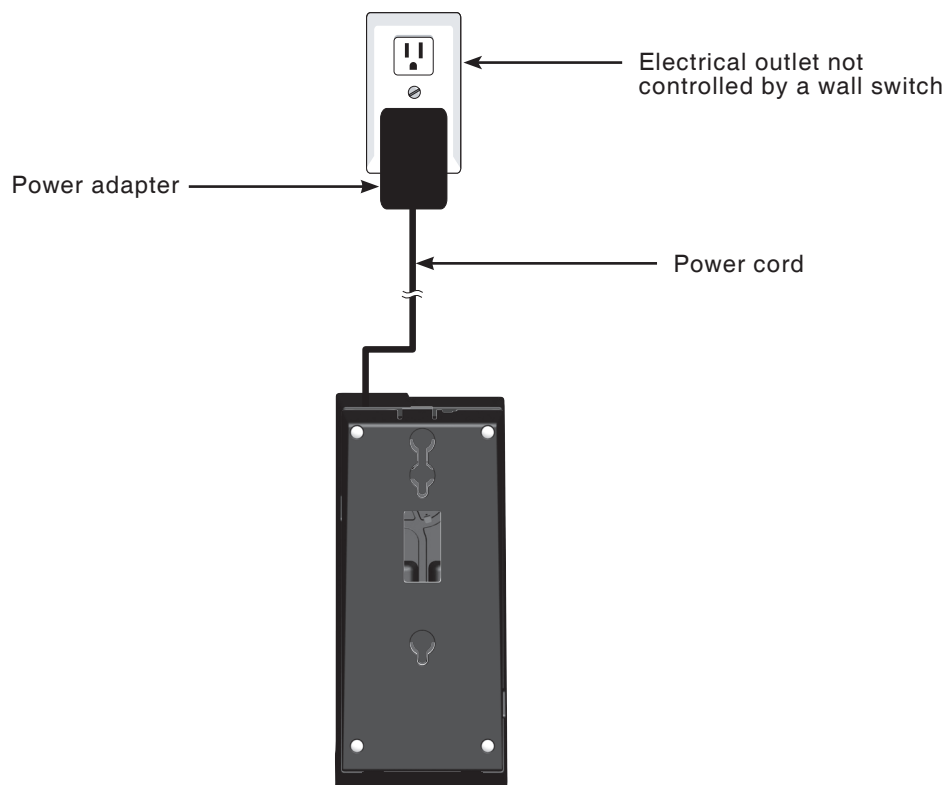
1. Turn the phone base over with the bottom side facing up. Connect the small end of the power adapter cord on the top of the phone.



2. Position the mounting bracket as shown. Insert the two small tabs of the mounting bracket into the lower slots on the phone. Then press the large tab on the mounting bracket and firmly push it into the upper groove at the bottom.



3. Install the phone as shown below. Then connect the coiled handset cord at the side of the phone.



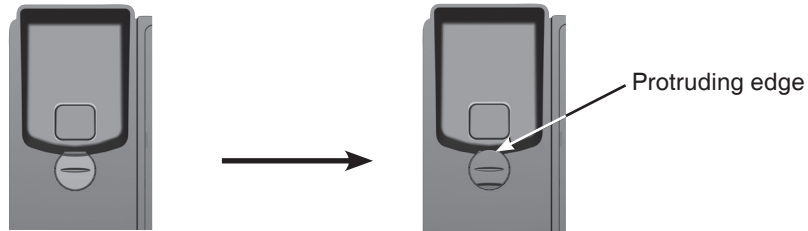
## Installation

### Analog cordless 1-line/2-line accessory Petite - CTM-A241P/CTM-A242P

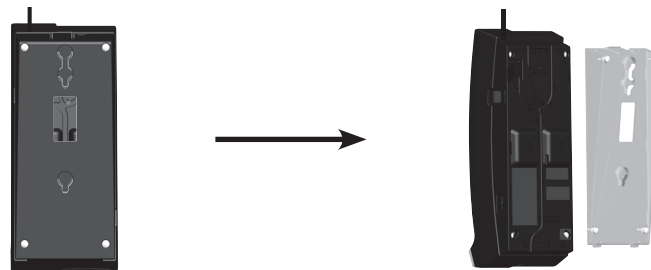
#### Installation option - converting from desktop to wall mount position

##### To mount the phone on the wall:

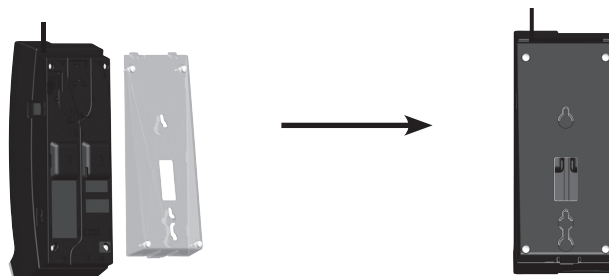
1. Set aside the handset. On the phone cradle, place a coin in the slit of the wall mount clip and rotate a half turn (180 degrees). It locks into place with the protruding edge pointing towards the upper edge of the phone. This protruding edge holds the corded handset when the phone is mounted on the wall.



2. Press the large tab on the mounting bracket to remove it from the upper groove on the phone.



3. Turn the mounting bracket upside down. Insert the small tabs on the mounting bracket into the upper slots on the phone. Then press the large tab on the mounting bracket and firmly push it into the lower groove on the base.



4. Mount the phone on the wall by aligning the eyelets with the mounting studs of the wall plate. Then slide the phone down on both mounting studs until it locks into place. Place the handset on the phone cradle.



# Installation

## Analog cordless 1-line/2-line accessory Petite - CTM-A241P/CTM-A242P

### Accessory Petite registration

To register an accessory Petite to a CTM-A2411/CTM-A2411-BATT/CTM-A2421/CTM-A2421-BATT/CTM-A2510/CTM-A2510-USB telephone base:

When the telephone base is idle, press **123** and then press **HOLD**. The **MESSAGE WAITING** LED turns on for about 90 seconds. Press **123** and then **HOLD** on the accessory Petite, the **MESSAGE WAITING** LED on the accessory Petite turns on for 90 seconds.

When the registration process completes, you hear 3 rising beeps as confirmation. When the telephone base has already registered 4 cordless handsets or accessory Petite phones, one of the registered cordless handsets or accessory Petite phones must be deregistered or registered to another telephone base before adding a new cordless handset or accessory Petite phone.

### Accessory Petite deregistration

When a registered accessory Petite is idle, press **\*331734#** and then press **HOLD**. You hear 3 rising beeps as confirmation when the deregistration process completes.

### Register an accessory Petite to another telephone base

Any analog cordless 1-line accessory Petite can register to any CTM-A2411/CTM-A2411-BATT/CTM-A2510/CTM-A2510-USB telephone base. Any analog cordless 2-line accessory Petite can register to any CTM-A2421/CTM-A2421-BATT telephone base.

# Installation

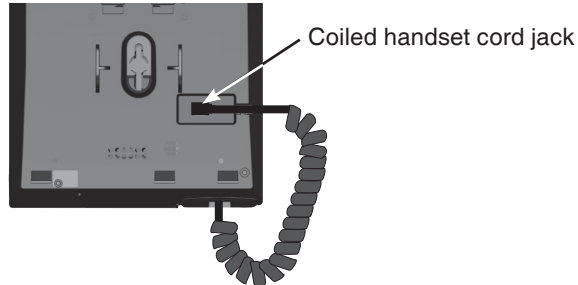
## Analog corded/cordless 1-line - CTM-A2510/CTM-A2510-USB

### Telephone base installation

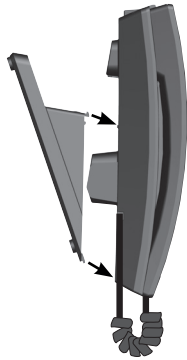
This telephone can be adapted to desktop use or mount on a standard telephone wall plate.

#### Installation option - desktop position

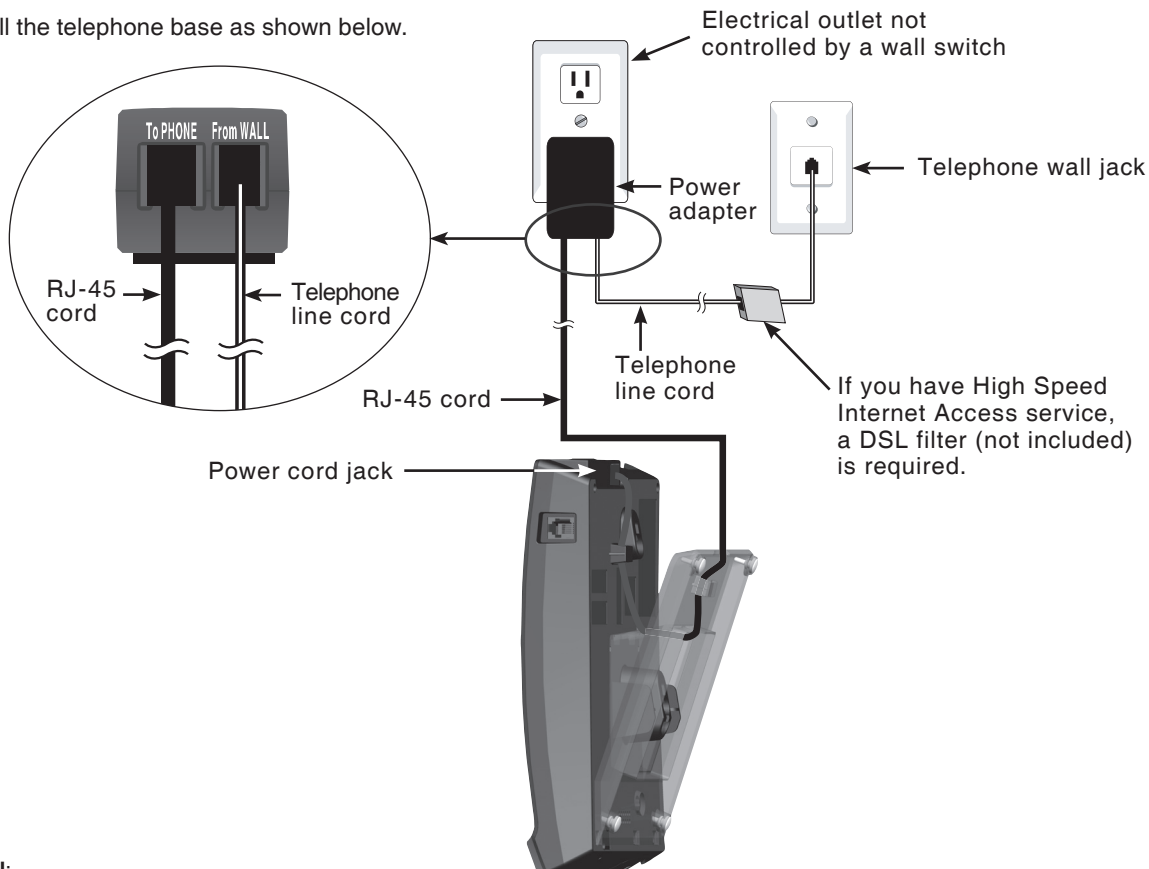
1. Turn the telephone base over with the bottom side facing up. Connect the coiled handset cord to the telephone base.



2. Insert the tabs into the grooves to affix the mounting bracket in place.



3. Install the telephone base as shown below.



#### CAUTION:

Use only the supplied RJ-45 cord and power adapter. RJ-45 cord is not designed for use in any other IT devices. Misuse of RJ-45 cord on your other IT devices shall be prohibited. To order a replacement, visit our website at [www.vtechhotelphones.com](http://www.vtechhotelphones.com) or call 1-888-907-2007.



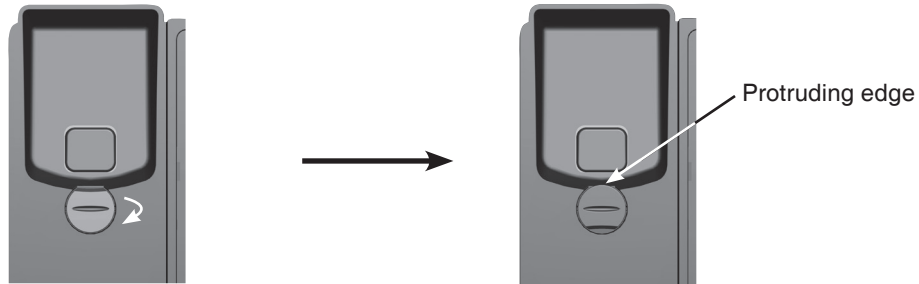
## Installation

### Analog corded/cordless 1-line - CTM-A2510/CTM-A2510-USB

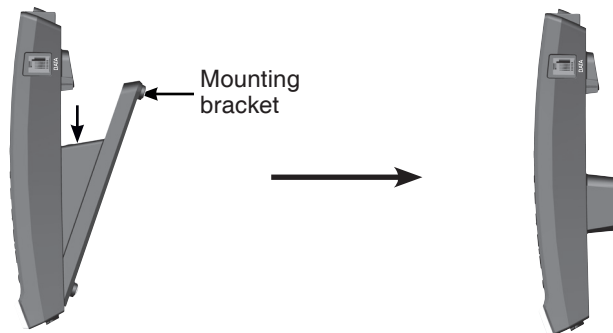
#### Installation option - converting from desktop to wall mount position

##### To mount the telephone base on the wall:

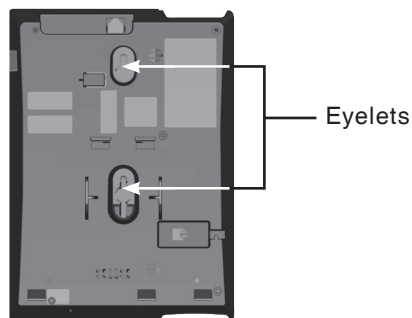
1. Set aside the handset. On the telephone base cradle, place a coin in the slit of the wall mount clip and rotate a half turn (180 degrees). It locks into place with the protruding edge pointing towards the upper edge of the telephone base. This protruding edge holds the handset when the phone is mounted on the wall.



2. Turn the telephone base over with the bottom side facing up. To remove the mounting bracket, firmly push both tabs downward and pull up until both tabs release from the grooves.



3. Mount the telephone base on the wall by aligning the eyelets with the mounting studs of the wall plate. Then slide the telephone base down on both mounting studs until it locks into place.



4. Place the handset on the telephone base cradle.

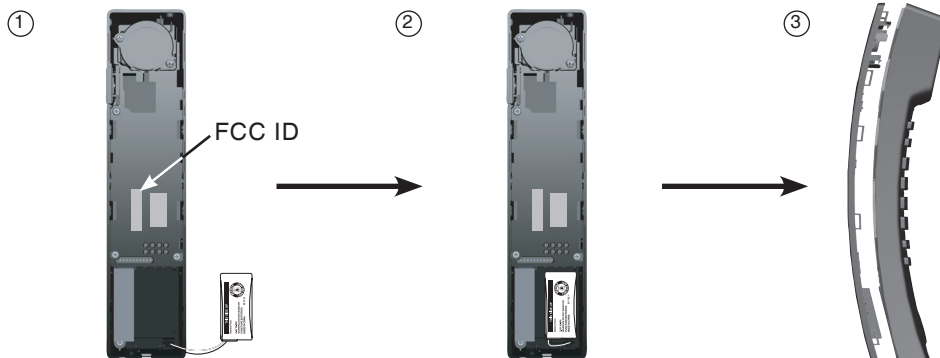
## Installation

### Analog corded/cordless 1-line - CTM-A2510/CTM-A2510-USB

#### Handset battery installation

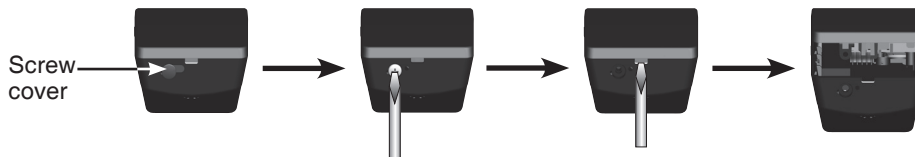
Install the battery as shown below.

1. Plug the battery connector securely into the socket inside the handset battery compartment.
2. Place the battery with the label **THIS SIDE UP** facing up and the wires inside the battery compartment.
3. To replace the handset cover, align all the tabs on the handset cover against the corresponding grooves on the handset, then firmly push downward until all the tabs lock in the grooves. Then install the screws at both ends of the handset.



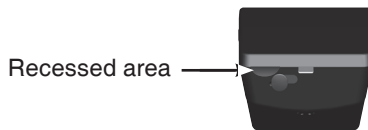
#### Replace a handset battery

1. Use a 5 mm standard screwdriver to open the screw cover and remove the screw.
2. Insert the screwdriver in the provided slot and then twist and lift to open the bottom part.

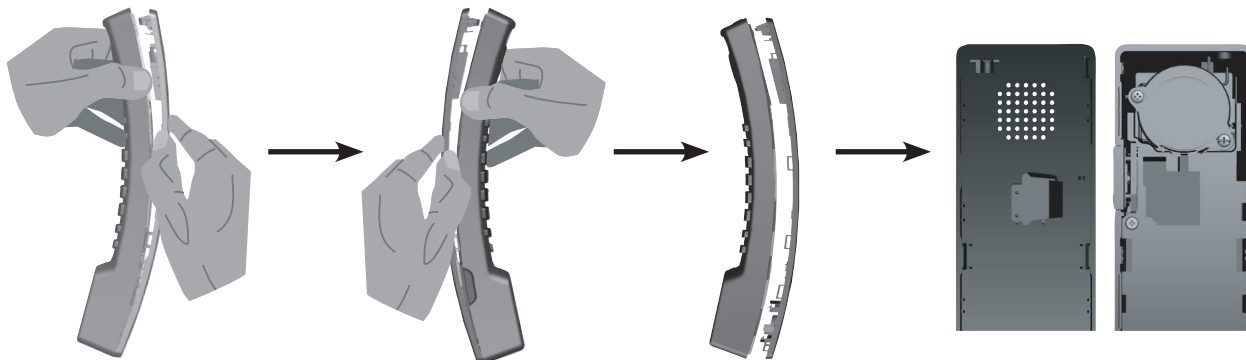


**-OR-**

Open the bottom part manually at the recessed area to avoid scratching the plastic.



3. Use your thumb to slide along the sides of the handset carefully to release the tabs on the handset cover from the slots on the sides of the handset. Then gently detach the handset cover from the handset.



4. Unplug the battery connector from the socket and then remove the battery from the handset battery compartment.
5. Follow Step 2 to Step 4 in **Handset battery installation** above to install a new battery.

#### CAUTIONS:

- There may be a risk of explosion if a wrong type of handset battery is used. Use only the supplied rechargeable battery (BT264392/BT266342) or replacement battery (BT266342). To order a replacement, visit our website at [www.vtechhotelphones.com](http://www.vtechhotelphones.com) or call 1-888-907-2007.
- FCC ID is shown on the back of the cordless handset body after the handset cover is removed.
- Dispose of used batteries according to the information in **The RBRC® seal** on page 72.

# Installation

## Analog corded/cordless 1-line - CTM-A2510/CTM-A2510-USB

### Handset registration

When the telephone base is idle, press **123** on the telephone base and then press **HOLD**. The **MESSAGE WAITING** LED on the base turns on for about 90 seconds. Press **123** on the cordless handset and then press **HOLD**. The **MESSAGE WAITING** LED on the handset turns on for 90 seconds. When the registration process completes, you hear 3 rising beeps as confirmation. When the telephone base has already registered 4 cordless handsets, one of the registered cordless handsets must be deregistered or registered to another telephone base before adding a new cordless handset.

### Handset deregistration

When a registered cordless handset is idle, press **\*331734#** and then press **HOLD**. You hear 3 rising beeps as confirmation when the deregistration process completes.

### Register a handset to another telephone base

Any **CTM-A2510/CTM-A2510-USB** handset can register to any **CTM-A2510/CTM-A2510-USB** telephone base. Deregister the registered cordless handset from its base (see **Handset deregistration** above) and then register it to a new telephone base (see **Handset registration** above).

### Handset battery charging

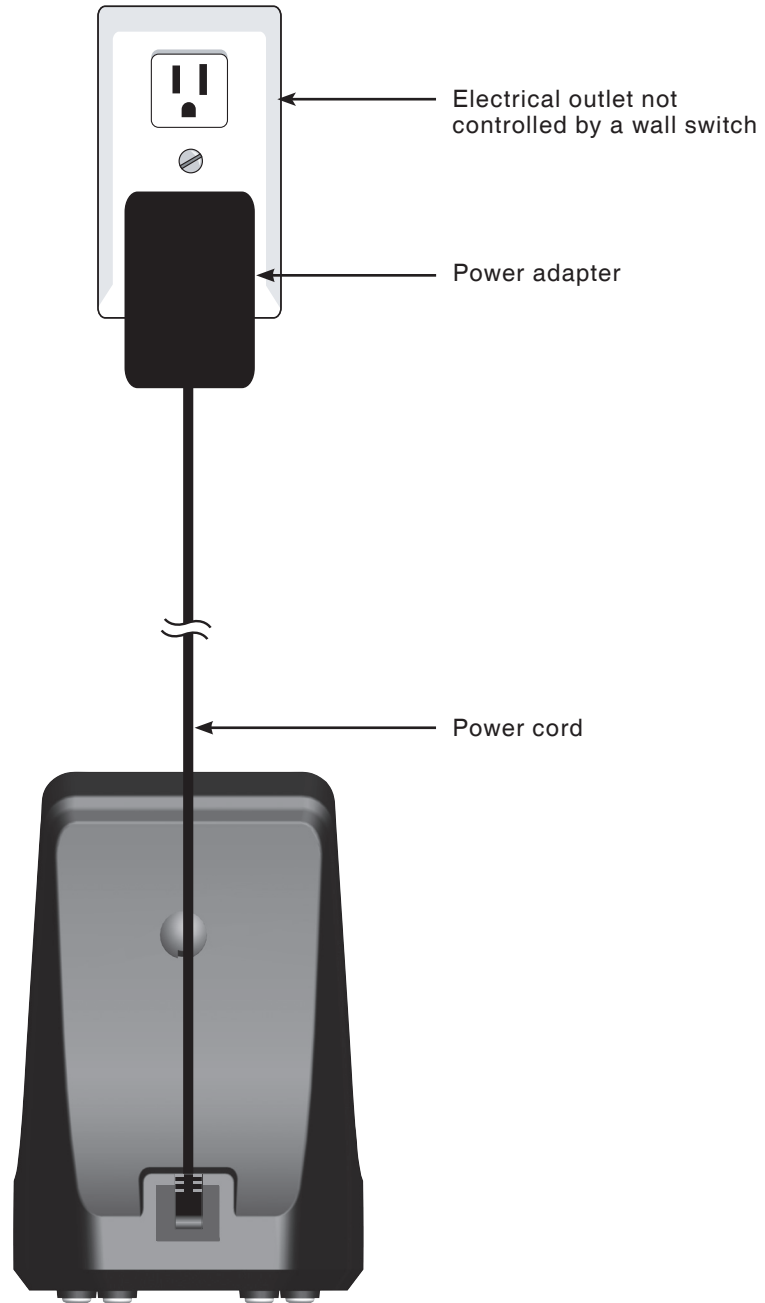
The battery must be fully charged before using the cordless handset for the first time. The **CHARGE** LED turns on when the cordless handset is charging on the charging base or charging stand. The battery is fully charged after 16 hours of continuous charging. For best performance, keep the cordless handset in the charging base or charging stand when not in use.

## Installation

### Analog corded/cordless 1-line - CTM-A2510/CTM-A2510-USB

#### Charging stand installation

The charging stand is designed for desktop use. Install the charging stand as shown below.



# Installation

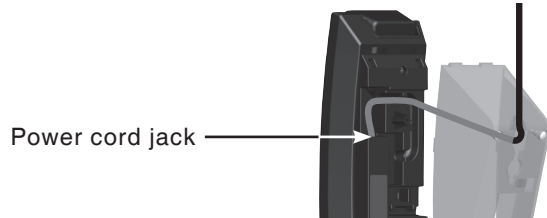
## Analog cordless charging base - C4000

### Charging base installation

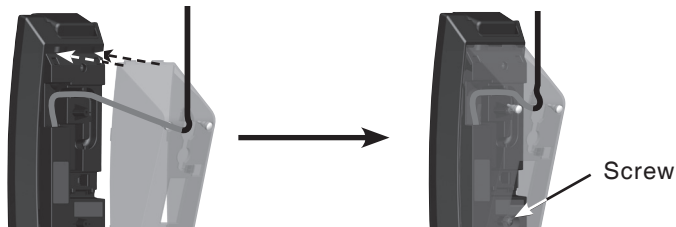
The charging base can be adapted to desktop use or mount on a standard telephone wall plate.

#### Installation option - desktop position

1. Turn the charging base over with the bottom side facing up. Position the mounting bracket as shown. Connect the power cord to the charging base and route the cord out from the large eyelet on the mounting bracket.



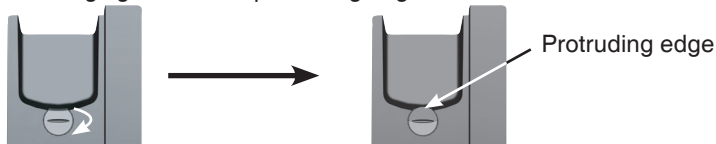
2. Insert the tabs of the mounting bracket as the direction shown below. Then tighten the screw to affix the mounting bracket.



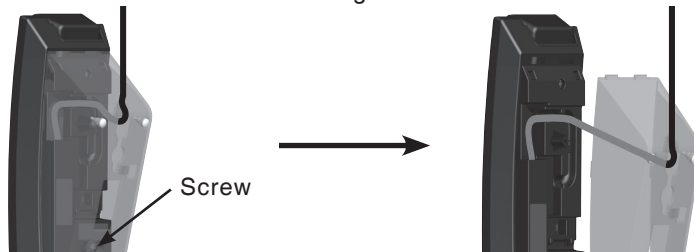
3. Plug the power adapter into an electrical outlet not controlled by a wall switch.

#### Installation option - converting from desktop to wall mount position

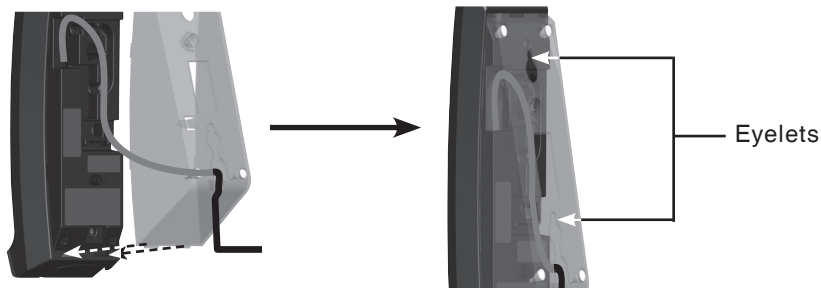
1. Unplug the power adapter from the electrical outlet.
2. Remove the cordless handset from the charging base if necessary. On the charging base cradle, place a coin in the slit of the wall mount clip and rotate a half turn (180 degrees). It locks into place with the protruding edge pointing towards the upper edge of the charging base. This protruding edge holds the cordless handset when the charging base is mounted on the wall.



3. Loosen the screw from the mounting bracket and remove the mounting bracket from the grooves.



4. Turn the mounting bracket upside down. Insert the tabs of the mounting bracket into the lower grooves on the charging base. Then tighten the screw to affix the mounting bracket.



5. Mount the charging base on the wall by aligning the eyelets with the mounting studs of the wall plate. Then slide the charging base down on both mounting studs until it locks into place.
6. Plug the power adapter into an electrical outlet not controlled by a wall switch.

# Installation

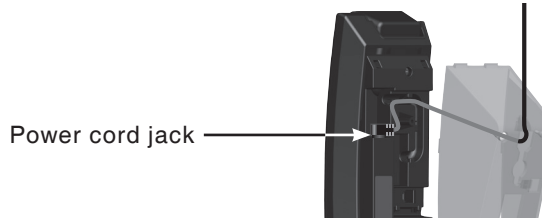
## Analog cordless charging base - C4001

### Charging base installation

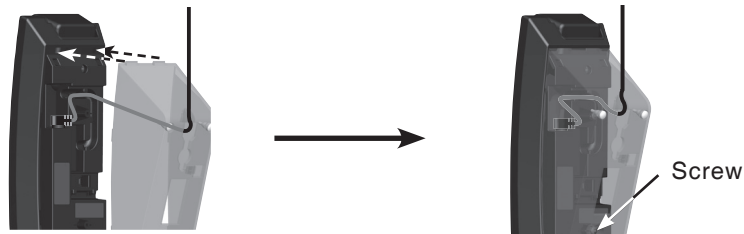
The charging base can be adapted to desktop use or mount on a standard telephone wall plate.

#### Installation option - desktop position

1. Turn the charging base over with the bottom side facing up. Position the mounting bracket as shown. Connect the power cord to the charging base and route the cord out from the large eyelet on the mounting bracket.



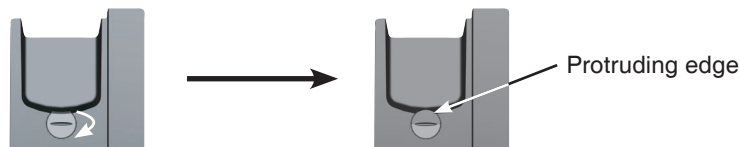
2. Insert the tabs of the mounting bracket as the direction shown below. Then tighten the screw to affix the mounting bracket.



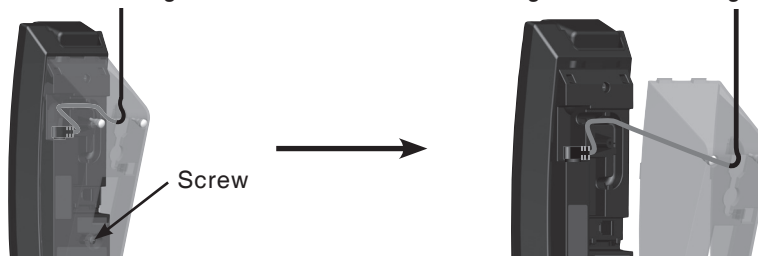
3. Plug the power adapter into an electrical outlet not controlled by a wall switch.

#### Installation option - converting from desktop to wall mount position

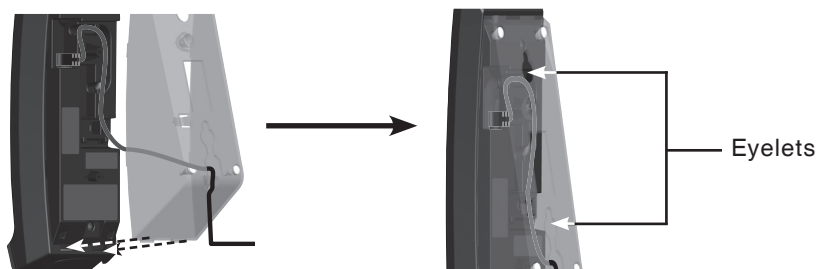
1. Unplug the power adapter from the electrical outlet.
2. Remove the cordless handset from the charging base if necessary. On the charging base cradle, place a coin in the slit of the wall mount clip and rotate a half turn (180 degrees). It locks into place with the protruding edge pointing towards the upper edge of the charging base. This protruding edge holds the cordless handset when the charging base is mounted on the wall.



3. Loosen the screw from the mounting bracket and remove the mounting bracket from the grooves.



4. Rotate the mounting bracket. Insert the tabs of the mounting bracket into the lower grooves on the charging base. Then tighten the screw to affix the mounting bracket.



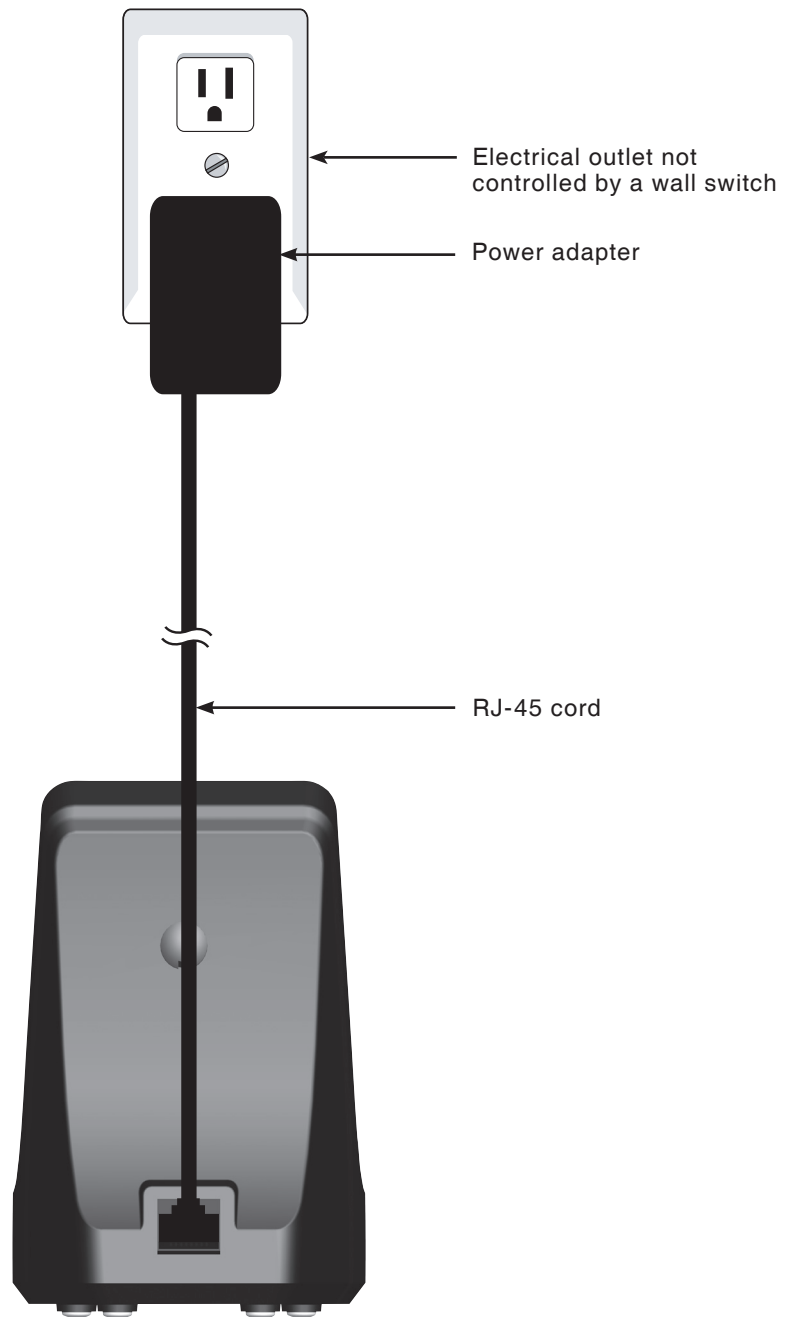
5. Mount the charging base on the wall by aligning the eyelets with the mounting studs of the wall plate. Then slide the charging base down on both mounting studs until it locks into place.
6. Plug the power adapter into an electrical outlet not controlled by a wall switch.

## Installation

### Analog cordless charging stand - C4010

#### Charging stand installation

The charging stand is designed for desktop use. Install the charging stand as shown below.

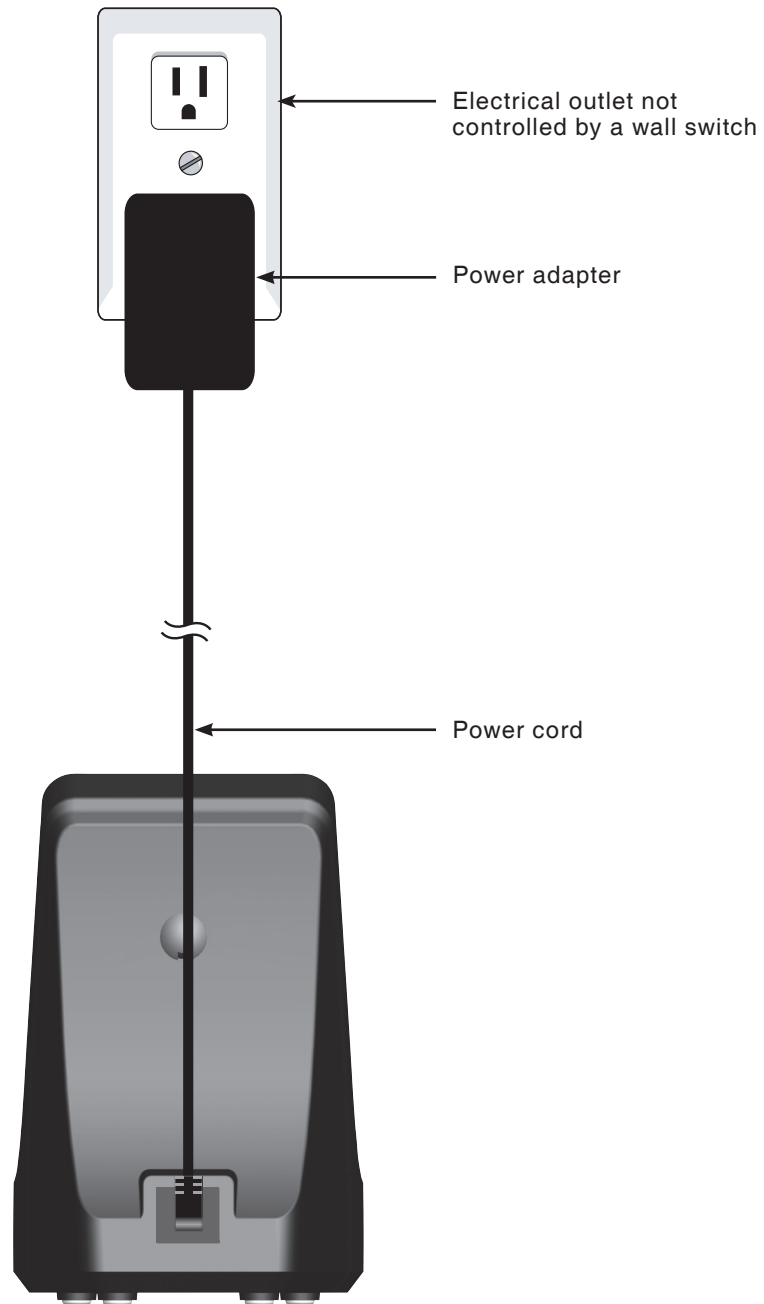


## Installation

### Analog cordless charging stand - C4011/C4011-USB/CTM-A241HS/CTM-A241SD/CTM-A242HS/CTM-A242SD

#### Charging stand installation

The charging stand is designed for desktop use. Install the charging stand as shown below.





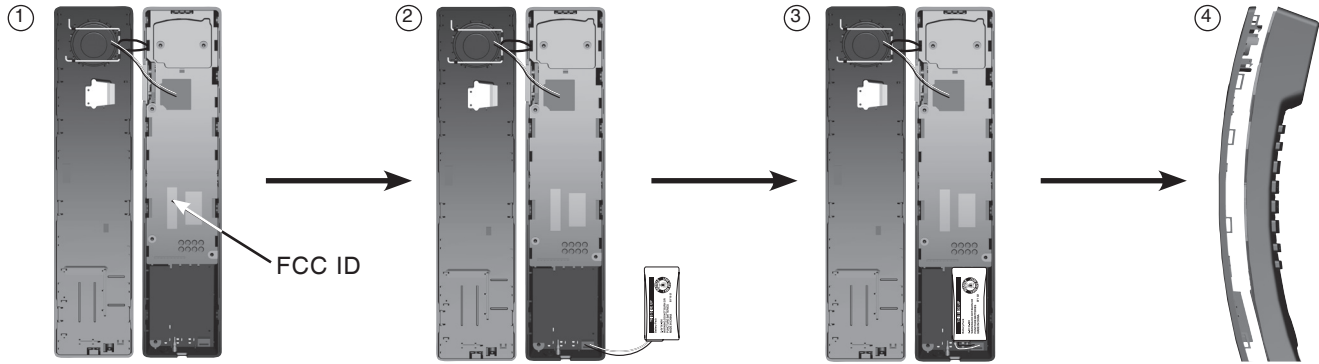
## Installation

### Analog cordless 1-line/2-line accessory handset - C4100/C4200/CTM-A241HS/CTM-A242HS

#### Handset battery installation

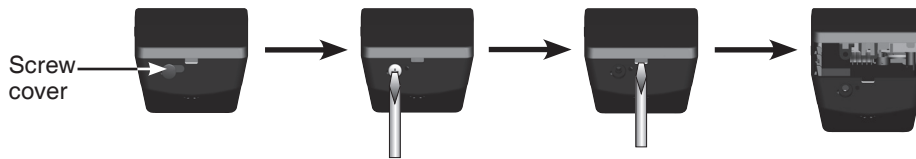
Install the battery as shown below.

1. Gently lift the handset cover. Do not detach the speaker wires between the handset cover and the handset.
2. Plug the battery connector securely into the socket inside the handset battery compartment.
3. Place the battery with the label **THIS SIDE UP** facing up and the wires inside the battery compartment.
4. To replace the handset cover, align all the tabs on the handset cover against the corresponding grooves on the handset, then firmly push downward until all the tabs lock in the grooves. Then install the screw at the bottom of the handset.



#### Replace a handset battery

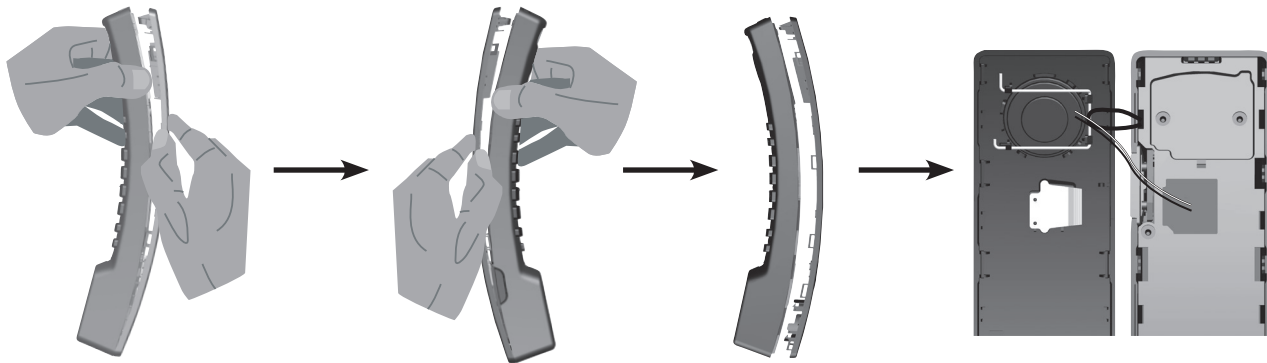
1. Use a 5 mm standard screwdriver to open the screw cover and remove the screw. Insert the screwdriver in the provided slot and then twist and lift to open the bottom part.



2. Use your thumb to slide along the sides of the handset carefully to release the tabs on the handset cover from the slots on the sides of the handset. Then gently detach the handset cover from the handset.



Do not detach the speaker wires between the handset cover and the handset.



3. Unplug the battery connector from the socket and then remove the battery from the handset battery compartment.
4. Follow Step 2 to Step 4 in **Handset battery installation** above to install a new battery.

#### CAUTIONS:

- There may be a risk of explosion if a wrong type of handset battery is used. Use only the supplied rechargeable battery (BT264392/BT266342) or replacement battery (BT266342). To order a replacement, visit our website at [www.vtechhotelphones.com](http://www.vtechhotelphones.com) or call 1-888-907-2007.
- FCC ID is shown on the back of the cordless handset body after the handset cover is removed.
- Dispose of used batteries according to the information in **The RBRC® seal** on page 72.

## Installation

### Analog cordless 1-line/2-line accessory handset - C4100/C4200/CTM-A241HS/CTM-A242HS

#### Handset registration

Place the cordless handset on the telephone base cradle. Handset registration happens automatically the first time a cordless handset is placed on the telephone base. When the registration process completes, the **MESSAGE WAITING** LED flashes once and you hear 3 rising beeps as confirmation. Each telephone base accommodates up to 4 cordless handsets. When the telephone base has already registered 4 cordless handsets, one of the registered cordless handsets must be deregistered or registered to another telephone base before adding a new cordless handset.

#### Handset deregistration

When a registered cordless handset is idle, press **\*331734#** and then press **HOLD**. You hear 3 rising beeps as confirmation when the deregistration process completes.

#### Register a handset to another telephone base

Any **C4100/CTM-A241HS** handset can register to any **A2410** telephone base. Any **C4200/CTM-A242HS** handset can register to any **A2420** telephone base.

When a registered cordless handset is idle, place it on another telephone base. This cordless handset automatically registers to the new telephone base.

#### Handset battery charging

The battery must be fully charged before using the cordless handset for the first time. The **CHARGE** LED turns on when the cordless handset is charging on the telephone base, charging base or charging stand. The battery is fully charged after 16 hours of continuous charging. For best performance, keep the cordless handset in the telephone base, charging base or charging stand when not in use.

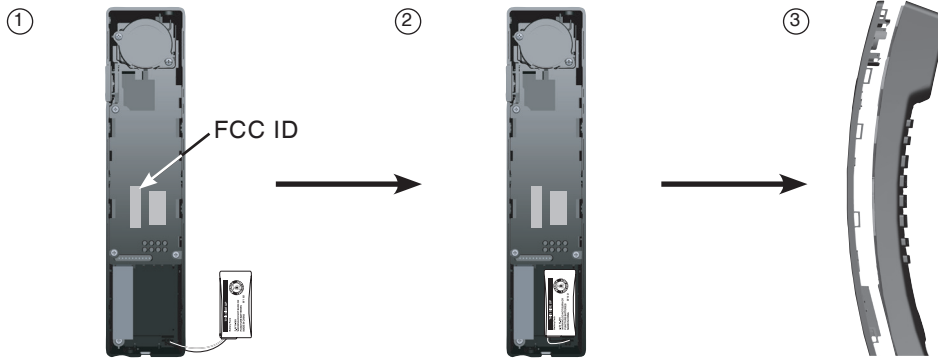
## Installation

### Analog cordless 1-line/2-line accessory handset - CTM-A241SD/CTM-A242SD/CTM-C4101/CTM-C4201

#### Handset battery installation

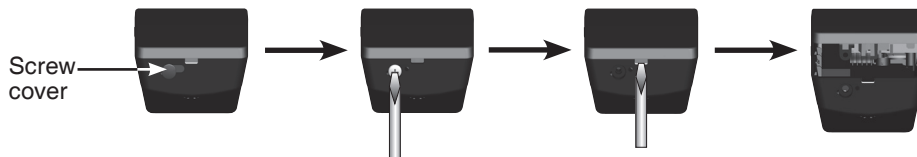
Install the battery as shown below.

1. Plug the battery connector securely into the socket inside the handset battery compartment.
2. Place the battery with the label **THIS SIDE UP** facing up and the wires inside the battery compartment.
3. To replace the handset cover, align all the tabs on the handset cover against the corresponding grooves on the handset, then firmly push downward until all the tabs lock in the grooves. Then install the screws at both ends of the handset.



#### Replace a handset battery

1. Use a 5 mm standard screwdriver to open the screw cover and remove the screw.
2. Insert the screwdriver in the provided slot and then twist and lift to open the bottom part.

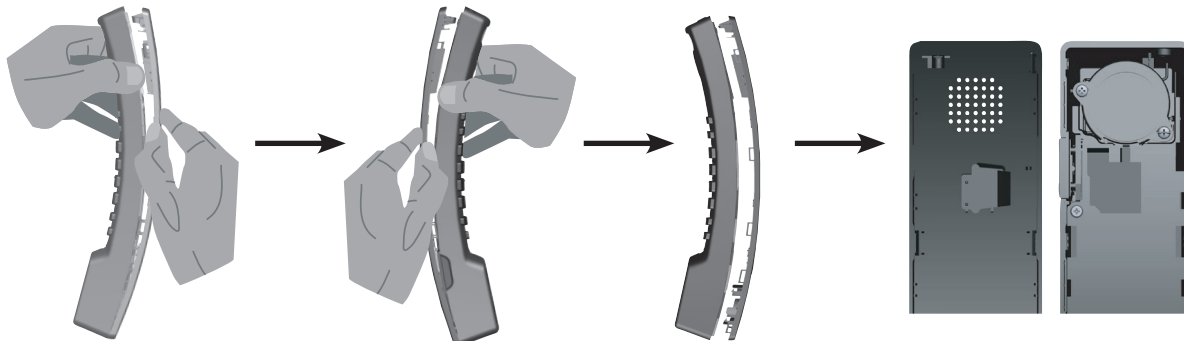


**-OR-**

Open the bottom part manually at the recessed area to avoid scratching the plastic.



3. Use your thumb to slide along the sides of the handset carefully to release the tabs on the handset cover from the slots on the sides of the handset. Then gently detach the handset cover from the handset.



4. Unplug the battery connector from the socket and then remove the battery from the handset battery compartment.
5. Follow Step 2 to Step 4 in **Handset battery installation** above to install a new battery.

#### CAUTIONS:

- There may be a risk of explosion if a wrong type of handset battery is used. Use only the supplied rechargeable battery (BT264392/BT266342) or replacement battery (BT266342). To order a replacement, visit our website at [www.vtechhotelphones.com](http://www.vtechhotelphones.com) or call 1-888-907-2007.
- FCC ID is shown on the back of the cordless handset body after the handset cover is removed.
- Dispose of used batteries according to the information in **The RBRC® seal** on page 72.

## Installation

### Analog cordless 1-line/2-line accessory handset - CTM-A241SD/CTM-A242SD/CTM-C4101/CTM-C4201

#### Handset registration

**To register a cordless handset to an A2410/A2420/CTM-A2411/CTM-A2411-BATT/CTM-A2421/CTM-A2421-BATT telephone base:**

Place the cordless handset on the telephone base cradle. Handset registration happens automatically the first time a cordless handset is placed on the telephone base. When the registration process completes, the **MESSAGE WAITING** LED flashes once and you hear 3 rising beeps as confirmation. Each telephone base accommodates up to 4 cordless handsets or accessory Petite phones. When the telephone base has already registered 4 cordless handsets or accessory Petite phones, one of the registered cordless handsets or accessory Petite phones must be deregistered or registered to another telephone base before adding a new cordless handset or accessory Petite phone.

**To register a cordless handset to a CTM-A2411/CTM-A2411-BATT/CTM-A2421/CTM-A2421-BATT/CTM-A2510/CTM-A2510-USB telephone base without placing it on the telephone base:**

When the telephone base is idle, press **123** on the telephone base and then press **HOLD**. The **MESSAGE WAITING** LED on the base turns on for about 90 seconds. Press **123** on the cordless handset and then press **HOLD**. The **MESSAGE WAITING** LED on the handset turns on for 90 seconds. When the registration process completes, you hear 3 rising beeps as confirmation. When the telephone base has already registered 4 cordless handsets or accessory Petite phones, one of the registered cordless handsets or accessory Petite phones must be deregistered or registered to another telephone base before adding a new cordless handset or accessory Petite phone.

#### Handset deregistration

When a registered cordless handset is idle, press **\*331734#** and then press **HOLD**. You hear 3 rising beeps as confirmation when the deregistration process completes.

#### Register a handset to another telephone base

Any **CTM-A241SD/CTM-C4101** handset can register to any **A2410/CTM-A2411/CTM-A2411-BATT/CTM-A2510/CTM-A2510-USB** telephone base. Any **CTM-A242SD/CTM-C4201** handset can register to any **A2421/CTM-A2421/CTM-A2421-BATT** telephone base.

Deregister the registered cordless handset from its base (see **Handset deregistration** above) and then register it to a new telephone base (see **Handset registration** above).

#### Handset battery charging

The battery must be fully charged before using the cordless handset for the first time. The **CHARGE** LED turns on when the cordless handset is charging on the telephone base, charging base or charging stand. The battery is fully charged after 16 hours of continuous charging. For best performance, keep the cordless handset in the telephone base, charging base or charging stand when not in use.

## Set up

**Analog cordless 1-line/2-line - A2410/CTM-A2411/CTM-A2411-BATT/A2420/CTM-A2421/CTM-A2421-BATT**

**Analog corded/cordless 1-line - CTM-A2510/CTM-A2510-USB**

**Analog cordless 1-line/2-line accessory handset - CTM-A241SD/CTM-A242SD/CTM-C4101/CTM-C4201**

**Analog cordless 1-line/2-line accessory Petite - CTM-A241P/CTM-A242P**

Default settings are indicated by asterisks (\*).

| Setting                                                                                                                                                                      | Options                                                   | Adjustable by:         |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------|------------------------|
| Listening volume - handset                                                                                                                                                   | 1, 2, 3, 4*, 5, 6                                         | User and administrator |
| Speakerphone volume - handset                                                                                                                                                | 1, 2, 3, 4*, 5, 6                                         | User and administrator |
| Speakerphone volume - telephone base                                                                                                                                         | 1, 2, 3, 4*, 5, 6                                         | User and administrator |
| Ringer volume - telephone base                                                                                                                                               | 1, 2*, 3                                                  | User and administrator |
| Ringer tone - telephone base                                                                                                                                                 | Tone 1*, Tone 2, Tone 3                                   | Administrator only     |
| Flash                                                                                                                                                                        | 1 (100ms), 2 (300ms), 3* (600ms)                          | Administrator only     |
| RF transmission power - telephone base                                                                                                                                       | 1 (low), 2* (middle), 3 (high)                            | Administrator only     |
| Hold                                                                                                                                                                         | 00 (auto-release disabled), 01 - 14, 15*, 16 - 99 minutes | Administrator only     |
| Voicemail voltage detection -<br>• Steady high voltage, periodic high voltage pulse and periodic low voltage pulse detection method<br>• FSK detection method<br>• Panasonic | 0 (disable), 1 (enable)                                   | Administrator only     |
| Voicemail voltage detection -<br>• Line reversal method                                                                                                                      | 0 (disable), 1 (auto), 2 (default 0), 3 (default 1)       | Administrator only     |
| Voicemail voltage detection -<br>• Siemens                                                                                                                                   | 0 (disable), 1 (50Hz), 2 (25Hz), 3 (20Hz)                 | Administrator only     |
| Speed Dial number share                                                                                                                                                      | 0 (disable), 1 (enable)                                   | Administrator only     |

### Ringer tone

There are 3 ringer tones options that can be assigned to the telephone base. For 2-line models (**A2420/CTM-A2421/CTM-A2421-BATT**), changing the ringer tone of either **LINE 1** or **LINE 2** applies to both phone lines.

#### To change the ringer tone:

1. Remove the faceplate and overlay if they are on the telephone base. Then press the recessed **PROGRAM** key.
2. Press **00** and you hear 3 beeps. Then press a dialing key, **1**, **2** or **3**, to select the desired ringer tone. You hear 3 rising beeps as confirmation.

### Flash

There are 3 flash duration options that can be programmed.

#### To change the flash duration:

1. Remove the faceplate and overlay if they are on the telephone base. Then press the recessed **PROGRAM** key.
2. Press **FLASH** and you hear 3 beeps. Then press a dialing key, **1** (100ms), **2** (300ms) or **3** (600ms), to select the desired flash duration. You hear 3 rising beeps as confirmation.

### RF transmission power

There are 3 RF transmission power options on the telephone base that can be programmed.

#### To change the RF transmission power control level:

1. Remove the faceplate and overlay if they are on the telephone base. Then press the recessed **PROGRAM** key.
2. Press **01** and you hear 3 beeps. Then press a dialing key, **1** (low - coverage of 25% of maximum working distance), **2** (middle - coverage of 50% maximum working distance) or **3** (high - coverage of 100% of maximum working distance), to select the desired RF transmission power control level. You hear 3 rising beeps as confirmation.

## Set up

**Analog cordless 1-line/2-line - A2410/CTM-A2411/CTM-A2411-BATT/A2420/CTM-A2421/CTM-A2421-BATT**

**Analog corded/cordless 1-line - CTM-A2510/CTM-A2510-USB**

**Analog cordless 1-line/2-line accessory handset - CTM-A241SD/CTM-A242SD/CTM-C4101/CTM-C4201**

**Analog cordless 1-line/2-line accessory Petite - CTM-A241P/CTM-A242P**

### Hold

The call on hold timeout duration can be programmed from 01 to 99 minutes. Select **00** to disable the auto-release feature on call on hold.

#### To change the call on hold timeout duration:

1. Remove the faceplate and overlay if they are on the telephone base. Then press the recessed **PROGRAM** key.
2. Press **02** and you hear 3 beeps. Then press the dialing keys from **00** to **99** minutes. You hear 3 rising beeps as confirmation.

### Voicemail voltage detection

There are several voicemail voltage detection methods on the telephone base that can be programmed.

#### To disable the voicemail voltage detection:

1. Remove the faceplate and overlay if they are on the telephone base.
2. Press the recessed **PROGRAM** key, then press **100**.
3. Press the recessed **PROGRAM** key, then press **110**.
4. Press the recessed **PROGRAM** key, then press **120**.
5. Press the recessed **PROGRAM** key, then press **130**.
6. Press the recessed **PROGRAM** key, then press **140**.

#### To set the voicemail voltage detection by the steady high voltage, periodic high voltage pulse and periodic low voltage pulse detection method:

1. Follow Step 1 to Step 6 in **To disable the voicemail voltage detection** above.
2. Press the recessed **PROGRAM** key.
3. Press **10** and you hear 3 beeps. Then press **1** to enable the setting. You hear 3 rising beeps as confirmation.

#### To set the voicemail voltage detection by the line reversal method:

1. Follow Step 1 to Step 6 in **To disable the voicemail voltage detection** above.
2. Disable voicemail signal to the telephone.
3. Press the recessed **PROGRAM** key.
4. Press **11** and you hear 3 beeps. Then press **1** (auto). You hear 3 rising beeps as confirmation.
5. Get a dial tone. Wait for about 3 seconds and then hang up.
6. After about 15 seconds, when the **MESSAGE WAITING** LED is off, enable voicemail signal to the telephone.
7. After about 15 seconds, when the **MESSAGE WAITING** LED is on, disable voicemail signal to the telephone. After about 15 seconds, the **MESSAGE WAITING** LED is off if you successfully completes the setting.

If you fail to set the above setting, follow below steps to set another setting.

1. Follow Step 1 to Step 6 in **To disable the voicemail voltage detection** above.
2. Disable voicemail signal to the telephone.
3. Press the recessed **PROGRAM** key.
4. Press **11** and you hear 3 beeps. Then press **2** (default 0) or **3** (default 1). You hear 3 rising beeps as confirmation. After about 15 seconds, if the **MESSAGE WAITING** LED is on, repeat the steps above to try another setting.
5. After about 15 seconds, when the **MESSAGE WAITING** LED is off, enable voicemail signal to the telephone.
6. After about 15 seconds, when the **MESSAGE WAITING** LED is on, disable voicemail signal to the telephone. After about 15 seconds, the **MESSAGE WAITING** LED is off if you successfully completes the setting.

#### To set the voicemail voltage detection by the FSK detection method:

1. Follow Step 1 to Step 6 in **To disable the voicemail voltage detection** above.
2. Press the recessed **PROGRAM** key.
3. Press **12** and you hear 3 beeps. Then press **1** to enable the setting. You hear 3 rising beeps as confirmation.

## Set up

**Analog cordless 1-line/2-line - A2410/CTM-A2411/CTM-A2411-BATT/A2420/CTM-A2421/CTM-A2421-BATT**

**Analog corded/cordless 1-line - CTM-A2510/CTM-A2510-USB**

**Analog cordless 1-line/2-line accessory handset - CTM-A241SD/CTM-A242SD/CTM-C4101/CTM-C4201**

**Analog cordless 1-line/2-line accessory Petite - CTM-A241P/CTM-A242P**

**To set the voicemail voltage detection by the Siemens detection method:**

1. Follow Step 1 to Step 6 in **To disable the voicemail voltage detection** above.
2. Disable voicemail signal to the telephone.
3. Press the recessed **PROGRAM** key.
4. Press **13** and you hear 3 beeps. Then press **1** (50Hz), **2** (25Hz) or **3** (20Hz). You hear 3 rising beeps as confirmation.
5. After about 15 seconds, when the **MESSAGE WAITING** LED is off, enable voicemail signal to the telephone. After about 15 seconds, if the **MESSAGE WAITING** LED is still off, repeat the steps above to try another setting.
6. Disable voicemail signal to the telephone. After about 15 seconds, the **MESSAGE WAITING** LED is off if you successfully completes the setting.

**To set the voicemail voltage detection by the Panasonic detection method:**

1. Follow Step 1 to Step 6 in **To disable the voicemail voltage detection** above.
2. Press the recessed **PROGRAM** key.
3. Press **14** and you hear 3 beeps. Then press **1** to enable the setting. You hear 3 rising beeps as confirmation.

### Speed Dial keys

For an **A2410/A2420** telephone base, there are up to 10 programmable guest-service (Speed Dial) keys. For a **CTM-A2411/CTM-A2411-BATT/CTM-A2421/CTM-A2421-BATT/CTM-A2510/CTM-A2510-USB** telephone base, there are up to 11 programmable guest-service (Speed Dial) keys. Program these keys to automatically dial telephone numbers or to activate telephone system features.

**To program a Speed Dial key on the telephone base:**

1. Remove the faceplate and overlay if they are on the telephone base. Then press the recessed **PROGRAM** key.
2. Press the desired Speed Dial key where the telephone number is to be stored. You hear 3 beeps.
3. Enter the telephone number (up to 32 digits).
  - To insert a pause in the stored number, press the recessed **PAUSE** key.
4. The telephone stores the number automatically when 32 digits are entered. When the number has less than 32 digits, press the recessed **PROGRAM** key again. You hear 3 rising beeps as confirmation.

**To clear the programmed Speed Dial key on the telephone base:**

1. Remove the faceplate and overlay if they are on the telephone base. Then press the recessed **PROGRAM** key.
2. Press the Speed Dial key where the telephone number is to be deleted. You hear 3 beeps. Press the recessed **PROGRAM** key again. You hear 3 rising beeps as confirmation.

For a **CTM-A2411/CTM-A2411-BATT/CTM-A2421/CTM-A2421-BATT/CTM-A2510/CTM-A2510-USB/CTM-A241SD/CTM-A242SD/CTM-C4101/CTM-C4201** cordless handset, there are 3 programmable keys. Program these keys to automatically dial telephone numbers or to activate telephone system features.

**To program the MESSAGES key on the cordless handset:**

1. Remove the faceplate and overlay if they are on the telephone base. Then press the recessed **PROGRAM** key.
2. Press **60** and you hear 3 beeps.
3. Enter the telephone number (up to 32 digits).
  - To insert a pause in the stored number, press the recessed **PAUSE** key.
4. The telephone stores the number automatically when 32 digits are entered. When the number has less than 32 digits, press the recessed **PROGRAM** key again. You hear 3 rising beeps as confirmation.

**To clear the programmed MESSAGES key on the cordless handset:**

1. Remove the faceplate and overlay if they are on the telephone base. Then press the recessed **PROGRAM** key.
2. Press **60** and you hear 3 beeps.
3. Press the recessed **PROGRAM** key again. You hear 3 rising beeps as confirmation.



## Set up

**Analog cordless 1-line/2-line - A2410/CTM-A2411/CTM-A2411-BATT/A2420/CTM-A2421/CTM-A2421-BATT**

**Analog corded/cordless 1-line - CTM-A2510/CTM-A2510-USB**

**Analog cordless 1-line/2-line accessory handset - CTM-A241SD/CTM-A242SD/CTM-C4101/CTM-C4201**

**Analog cordless 1-line/2-line accessory Petite - CTM-A241P/CTM-A242P**

### **To program a Speed Dial key on the cordless handset:**

1. Remove the faceplate and overlay if they are on the telephone base. Then press the recessed **PROGRAM** key.
2. Press **61** or **62** for the desired Speed Dial key where the telephone number is to be stored (**61** indicates the Speed Dial key below **REDIAL** key and **62** indicates the Speed Dial key below **MUTE** key) and you hear 3 beeps.
3. Enter the telephone number (up to 32 digits).
  - To insert a pause in the stored number, press the recessed **PAUSE** key.
4. The telephone stores the number automatically when 32 digits are entered. When the number has less than 32 digits, press the recessed **PROGRAM** key again. You hear 3 rising beeps as confirmation.

### **To clear the programmed Speed Dial key:**

1. Remove the faceplate and overlay if they are on the telephone base. Then press the recessed **PROGRAM** key.
2. Press **61** or **62** for the desired Speed Dial key where the telephone number is to be deleted (**61** indicates the Speed Dial key below **REDIAL** key and **62** indicates the Speed Dial key below **MUTE** key) and you hear 3 beeps.
3. Press the recessed **PROGRAM** key again. You hear 3 rising beeps as confirmation.

When a **CTM-A241SD/CTM-A242SD/CTM-C4101/CTM-C4201** is registered to an **A2410/A2420** telephone base, you can program these keys using the cordless handset.

### **To program the MESSAGES/Speed Dial key on a CTM-A241SD/CTM-A242SD/CTM-C4101/CTM-C4201 cordless handset:**

1. Press **234** and then **HOLD** when the cordless handset is not in use.
2. Press the **MESSAGES** key or the desired Speed Dial key where the telephone number is to be stored. You hear 3 beeps.
3. Enter the telephone number (up to 32 digits).
  - To insert a pause in the stored number, press the recessed **PAUSE** key.
4. The telephone stores the number automatically when 32 digits are entered. When the number has less than 32 digits, press the desired Speed Dial key where the telephone number is to be stored. You hear 3 rising beeps as confirmation.

### **To clear the MESSAGES/Speed Dial key on a CTM-A241SD/CTM-A242SD/CTM-C4101/CTM-C4201 cordless handset:**

1. Press **234** and then **HOLD** when the cordless handset is not in use.
2. Press the **MESSAGES** key or the desired Speed Dial key where the telephone number is to be deleted. You hear 3 rising beeps as confirmation.

When a **CTM-A241P/CTM-A242P** is registered to a **CTM-A2411/CTM-A2411-BATT/CTM-A2421/CTM-A2421-BATT/CTM-A2510/CTM-A2510-USB** telephone base, you can program these keys using the telephone base or share the same Speed Dial numbers with the telephone base.

### **To enable the Speed Dial number sharing from the telephone base:**

1. Remove the faceplate and overlay if they are on the telephone base. Then press the recessed **PROGRAM** key.
2. Press **03** and you hear 3 beeps. Then press **1** to enable. You hear 3 rising beeps as confirmation.

If you program a different set of Speed Dial numbers to the accessory Petite, you must disable the Speed Dial number sharing before you can program the Speed Dial numbers.

### **To disable the Speed Dial number sharing from the telephone base:**

1. Remove the faceplate and overlay if they are on the telephone base. Then press the recessed **PROGRAM** key.
2. Press **03** and you hear 3 beeps. Then press **0** to disable. You hear 3 rising beeps as confirmation.

### **To program a Speed Dial key on a CTM-A241P/CTM-A242P cordless accessory Petite using the telephone base:**

1. Remove the faceplate and overlay if they are on the telephone base. Then press the recessed **PROGRAM** key.
2. Press **70-79** or **7\*** for the desired Speed Dial key where the telephone number is to be stored and you hear 3 beeps.
3. Enter the telephone number (up to 32 digits).
  - To insert a pause in the stored number, press the recessed **PAUSE** key.
4. The telephone stores the number automatically when 32 digits are entered. When the number has less than 32 digits, press the recessed **PROGRAM** key again. You hear 3 rising beeps as confirmation.

### **To clear the programmed Speed Dial key using the telephone base:**

1. Remove the faceplate and overlay if they are on the telephone base. Then press the recessed **PROGRAM** key.
2. Press **70-79**, or **7\*** for the desired Speed Dial key where the telephone number is to be deleted and you hear 3 beeps.
3. Press the recessed **PROGRAM** key again. You hear 3 rising beeps as confirmation.



# Operation

## Analog cordless 1-line - A2410/CTM-A2411/CTM-A2411-BATT

### Using the cordless handset and the telephone base

The cordless handset and the telephone base cannot be used on the same call. However, calls can be switched between the cordless handset and the telephone base speakerphone.

When the cordless handset or the telephone base is in use, the **TALK** key on the cordless handset and the **IN USE** LED on the telephone base illuminate.

### Receive a call

When there is an incoming call, the telephone rings. The **IN USE** LED and the **MESSAGE WAITING** LED on the telephone base flash, and the **TALK** key on the cordless handset flashes.

#### To answer a call using the cordless handset while it is not on the telephone base, charging base or charging stand:

On the cordless handset, press **TALK** or **📞/SPEAKER**. The **TALK** key illuminates when in use. The **📞/SPEAKER** key illuminates when in speakerphone mode.

#### To answer a call using the cordless handset while it is resting on the telephone base, charging base or charging stand:

Lift the cordless handset from the telephone base, charging base or charging stand. The **TALK** key illuminates when in use. The **📞/SPEAKER** key illuminates when in speakerphone mode.

#### To answer a call using the telephone base:

On the telephone base, press **📞/SPEAKER**. The **IN USE** LED and the **📞/SPEAKER** key illuminate when in use.

### Place a call

#### To place a call using the A2410 cordless handset:

On the cordless handset, press **TALK** or **📞/SPEAKER**. Listen for a dial tone and then dial the desired number, or press a Speed Dial key on the telephone base to dial a programmed number. The **TALK** key illuminates when in use. The **📞/SPEAKER** key illuminates when in speakerphone mode.

#### To place a call using the CTM-A2411/CTM-A2411-BATT cordless handset:

On the cordless handset, press **TALK** or **📞/SPEAKER**. Listen for a dial tone and then dial the desired number, or press a Speed Dial key on the telephone base or cordless handset to dial a programmed number. The **TALK** key illuminates when in use. The **📞/SPEAKER** key illuminates when in speakerphone mode.

#### To place a call using the telephone base:

On the telephone base, press **📞/SPEAKER**. Listen for a dial tone and then dial the desired number, or press a Speed Dial key to dial a programmed number. The **IN USE** LED and the **📞/SPEAKER** key illuminate when in use.

### End a call

#### To end a call when using the cordless handset:

Press **OFF** on the cordless handset or place it in the telephone base, charging base or charging stand. The call ends when all handsets hang up.

#### To end a call when using the telephone base:

Press **📞/SPEAKER**.

### Switch a call between the cordless handset and the telephone base speakerphone

- To switch a call from the cordless handset to the telephone base speakerphone, press **📞/SPEAKER** on the telephone base.
- To switch a call from the telephone base speakerphone to the cordless handset which is not on the telephone base cradle, press **TALK** or **📞/SPEAKER** on the cordless handset.
- To switch a call from the telephone base speakerphone to the cordless handset currently on the telephone base cradle, lift the cordless handset from the telephone base.

### Share a call

A maximum of four cordless handsets or accessory Petites can be used at the same time on an external call.

#### To join a call:

During a call, press **TALK** or **📞/SPEAKER** on another cordless handset to join.

# Operation

## Analog cordless 1-line - A2410/CTM-A2411/CTM-A2411-BATT

### Handset speakerphone

During a call, press **Ⓜ/SPEAKER** on the cordless handset to switch between speakerphone mode and handset earpiece mode.

### Redial

The last dialed number on the cordless handset or the telephone base is stored for 15 minutes.

#### To redial the last dialed number from the cordless handset:

Press **TALK** or **Ⓜ/SPEAKER**. Listen for a dial tone. Then press **REDIAL**.

#### To redial the last dialed number from the telephone base:

Press **Ⓜ/SPEAKER**. Listen for a dial tone. Then press **REDIAL**.

### Volume

Listening volume can be adjusted on the cordless handset and the telephone base.

#### To adjust the listening volume:

- During a call on the handset, press **-/VOLUME/+** on it to adjust the listening volume. The next call returns to the default listening volume.
- During a call on the telephone base, press **+/VOLUME** or **-/VOLUME** on it to adjust the listening volume. The next call returns to the default listening volume.

Ringer volume of the telephone base can be adjusted.

#### To adjust the ringer volume of the telephone base:

When the telephone base is idle, press **+/VOLUME** or **-/VOLUME** on it to adjust the ringer volume.

### Call waiting

1. When you hear a call waiting tone during a call, press **FLASH** on the cordless handset or telephone base to put the current call on hold and take the new incoming call.
2. Press **FLASH** at any time to switch back and forth between calls.

### Mute

#### To mute the microphone:

1. During a call, press **MUTE** on the cordless handset or telephone base. The **MUTE** key illuminates when the mute function is turned on. You can hear the party on the other end but they cannot hear you.
2. Press **MUTE** again to resume the conversation. The light on the **MUTE** key turns off.

### Hold

When a call is placed on hold, any parallel phone that tries to use the same phone line will take the call off hold and pick the call.

#### To place a call on hold on the cordless handset:

1. During a call, press **HOLD** on the cordless handset. The **TALK** key on the cordless handset and the **HOLD** key on the telephone base flash when the call is on hold.
2. Press **TALK** or **Ⓜ/SPEAKER** to release the call from hold, or the call will end automatically after the preset call on hold duration.

#### To place a call on hold on the telephone base:

1. During a call, press **HOLD** on the telephone base. The **HOLD** key flashes when the call is on hold.
2. Press **Ⓜ/SPEAKER** to release the call from hold, or the call will end automatically after the preset call on hold duration.

# Operation

## Analog cordless 1-line - A2410/CTM-A2411/CTM-A2411-BATT

### Intercom (for A2410 only)

Use this feature for conversations between two cordless handsets, or a cordless handset and the telephone base.

#### To initiate an intercom call:

- On the cordless handset, press **INTERCOM** when it is not in use. It beeps and the **INTERCOM** key illuminates. All destination cordless handsets (except the cordless handset on the telephone base) and the telephone base ring, and the **INTERCOM/INT** keys flash.

-OR-

- On the telephone base, press **INT** when it is not in use. It beeps and the **INT** key illuminates. All destination cordless handsets (except the cordless handset on the telephone base) ring and the **INTERCOM** keys flash.

#### To initiate an intercom call during a call:

- During a call on the cordless handset, press **HOLD** to put the current call on hold. Then press **INTERCOM**. It beeps and the **INTERCOM** key illuminates. All destination cordless handsets (except the cordless handset on the telephone base) and the telephone base ring, and the **INTERCOM/INT** keys flash.

-OR-

- During a call on the telephone base, press **HOLD** to put the current call on hold. Then press **INT**. It beeps and the **INT** key illuminates. All destination cordless handsets (except the cordless handset on the telephone base) ring and the **INTERCOM** keys flash.

#### To answer an intercom call:

- Lift the cordless handset from the telephone base cradle, or press **INTERCOM** or **Ⓜ/SPEAKER** on the cordless handset.

-OR-

- Press **INT** or **Ⓜ/SPEAKER** on the telephone base.

#### To answer an incoming call during an intercom call:

Press **TALK** on the cordless handset or press **Ⓜ/SPEAKER** twice on the telephone base. The intercom call ends automatically.

#### To end an intercom call:

- Place the cordless handset in the telephone base cradle, or press **OFF** on the cordless handset.

-OR-

- Press **INT** or **Ⓜ/SPEAKER** on the telephone base.

### Find handset

Use this feature to find all registered cordless handsets.

#### To start paging:

Press **📞/FIND HANDSET** on the telephone base when the telephone is not in use. All idle cordless handsets beep for 60 seconds.

#### To end paging:

- Press **📞/FIND HANDSET** again on the telephone base.

-OR-

- Press any key on the cordless handset to stop the paging tone.

### Data port

You can connect your modem or fax machine to the telephone line through the **DATA** port.

# Operation

## Analog cordless 1-line accessory Petite - CTM-A241P

### Receive a call

When there is an incoming call, the telephone rings. The **IN USE** LED flashes.

#### To answer a call:

Lift the corded handset from the accessory phone base. The **IN USE** LED illuminates.

### Place a call

Lift the corded handset. Listen for a dial tone and then dial the desired number, or press a Speed Dial key to dial a programmed number. The **IN USE** LED illuminates.

### End a call

Place the corded handset back to the phone cradle.

### Switch a call between the accessory Petite and the telephone base speakerphone

- To switch a call from the accessory Petite to the telephone base speakerphone, press **◀SPEAKER** on the telephone base.
- To switch a call from the telephone base speakerphone to the accessory Petite, lift the corded handset from the accessory phone base.

### Share a call

A maximum of four cordless handsets or accessory Petite phones can be used at the same time on an external call.

#### To join a call:

During a call, lift the corded handset to join.

### Volume

Listening volume and ringer volume can be adjusted from the accessory phone base.

#### To adjust the listening volume:

During a call, press **+VOLUME** or **-VOLUME** to adjust the listening volume. The next call returns to the default listening volume.

#### To adjust the ringer volume:

At any time, slide the **RINGER VOL** switch on the right side of the accessory phone base to adjust the ringer volume.

### Call waiting

1. When you hear a call waiting tone during a call, press **FLASH** on the accessory phone base to put your current call on hold and take the new incoming call.
2. Press **FLASH** or the switch hook once rapidly at any time to switch back and forth between calls.

### Mute

#### To mute the microphone:

1. During a call, press **MUTE** on the accessory Petite. The **MUTE** key illuminates when the mute function is turned on. You can hear the party on the other end but they cannot hear you.
2. Press **MUTE** again to resume the conversation. The light on the **MUTE** key turns off.

### Hold

When a call is placed on hold, any parallel phone that tries to use the same phone line will take the call off hold and pick the call.

#### To place a call on hold:

1. During a call, press **HOLD** on the accessory Petite to place that call on hold. The **IN USE** LED flashes when the call is placed on hold.
2. To release the call from hold, press the switch hook once rapidly.

### USB port

The  port on the side of the accessory Petite can be used for charging devices (up to 1A @ 5.1V).

# Operation

## Analog cordless 2-line - A2420/CTM-A2421/CTM-A2421-BATT

### Using the cordless handset and the telephone base

The cordless handset and the telephone base cannot be used on the same call. However, calls can be switched between the cordless handset and the telephone base speakerphone.

When the cordless handset or the telephone base is in use, the corresponding line keys on the cordless handset and the telephone base illuminate.

### Receive a call

When there is an incoming call, the telephone rings. The corresponding line key and the **MESSAGE WAITING** LED on the telephone base flash, and the corresponding line key on the cordless handset flashes.

#### To answer a call using the cordless handset while it is not on the telephone base, charging base or charging stand:

On the cordless handset, press the flashing line key for the ringing line, or press **📞/SPEAKER**. It automatically connects to the ringing line. The respective line key illuminates when in use. The **📞/SPEAKER** key illuminates when in speakerphone mode.

#### To answer a call using the cordless handset while it is resting on the telephone base, charging base or charging stand:

Pick up the cordless handset from the telephone base. It automatically connects to the ringing line. The respective line key illuminates when in use.

#### To answer a call using the telephone base:

On the telephone base, press the flashing line key for the ringing line, or press **📞/SPEAKER**. It automatically connects to the ringing line. The respective line key and the **📞/SPEAKER** key illuminate when in use.

### Place a call

#### To place a call using the A2420 cordless handset:

On the cordless handset, press **LINE 1**, **LINE 2** or **📞/SPEAKER**. Listen for a dial tone and then dial the desired number, or press a Speed Dial key on the telephone base to dial a programmed number. The line key illuminates when in use. The **📞/SPEAKER** key illuminates when in speakerphone mode.

#### To place a call using the CTM-A2421/CTM-A2421-BATT cordless handset:

On the cordless handset, press **LINE 1**, **LINE 2** or **📞/SPEAKER**. Listen for a dial tone and then dial the desired number, or press a Speed Dial key on the telephone base or cordless handset to dial a programmed number. The line key illuminates when in use. The **📞/SPEAKER** key illuminates when in speakerphone mode.

#### To place a call using the telephone base:

On the telephone base, press **LINE 1**, **LINE 2** or **📞/SPEAKER**. Listen for a dial tone and then dial the desired number, or press a Speed Dial key to dial a programmed number. The line key and the **📞/SPEAKER** key illuminate when in use.

### End a call

#### To end a call when using the cordless handset:

Press **OFF** on the cordless handset or place it in the telephone base, charging base or charging stand. The call ends when all handsets hang up.

#### To end a call when using the telephone base:

Press **📞/SPEAKER** or the respective line key on the telephone base.

### Switch a call between the cordless handset and the telephone base speakerphone

- To switch a call from the cordless handset to the telephone base speakerphone, press the respective line key or **📞/SPEAKER** on the telephone base.
- To switch a call from the telephone base speakerphone to the cordless handset which is not on the telephone base cradle, press the respective line key or **📞/SPEAKER** on the cordless handset.
- To switch a call from the telephone base speakerphone to the cordless handset currently on the telephone base cradle, lift the cordless handset from the telephone base.

### Share a call

A maximum of four cordless handsets or accessory Petite phones can be used at the same time on an external call. If both lines are in use, a maximum of three cordless handsets or accessory Petite phones can be used on one line and the fourth handset or accessory Petite phone can be used on the other line at the same time.

#### To join a call:

During a call on line 1 or line 2, press the respective **LINE 1**, **LINE 2** or **📞/SPEAKER** on another cordless handset to join.

### Handset speakerphone

During a call on the handset, press **📞/SPEAKER** on the cordless handset to switch between speakerphone mode and handset earpiece mode.

# Operation

## Analog cordless 2-line - A2420/CTM-A2421/CTM-A2421-BATT

### Speakerphone

When the telephone is idle, press **Ⓜ/SPEAKER** on the cordless handset or the telephone base. The first available line is selected, starting with line 1.

### Redial

The last dialed number on the cordless handset or telephone base is stored for 15 minutes.

#### To redial the last dialed number from the handset or telephone base:

Press **LINE 1**, **LINE 2** or **Ⓜ/SPEAKER**. Listen for a dial tone. Then press **REDIAL**.

### Volume

Listening volume can be adjusted on the cordless handset and the telephone base.

#### To adjust the listening volume:

- During a call on the handset, press **-/VOLUME/+** on it to adjust the listening volume. The next call returns to the default listening volume.
- During a call on the telephone base, press **+/VOLUME** or **-/VOLUME** on it to adjust the listening volume. The next call returns to the default listening volume.

Ringer volume of the telephone base can be adjusted.

#### To adjust the ringer volume of the telephone base:

When the telephone base is idle, press **+/VOLUME** or **-/VOLUME** on it to adjust the ringer volume.

### Call waiting

1. When you hear a call waiting tone during a call, press **FLASH** on the cordless handset or telephone base to put the current call on hold and take the new incoming call.
2. Press **FLASH** at any time to switch back and forth between calls.

### Mute

#### To mute the microphone:

1. During a call, press **MUTE** on the cordless handset or telephone base. The **MUTE** key illuminates when the mute function is turned on. You can hear the party on the other end but they cannot hear you.
2. Press **MUTE** again to resume the conversation. The light on the **MUTE** key turns off.

### Hold

When a call is placed on hold, any parallel phone that tries to use the same phone line will take the call off hold and pick the call.

#### To place a call on hold:

1. During a call, press **HOLD** on the cordless handset or telephone base to place that call on hold. The corresponding line key flashes when the call is on hold.
2. Press the flashing line key or **Ⓜ/SPEAKER** to release the call from hold, or the call will end automatically after the preset call on hold duration. When both lines are on hold, press **Ⓜ/SPEAKER** releases the call on line 1.

### Intercom (for A2420 only)

#### To initiate an intercom call:

- On the cordless handset, press **INTERCOM** when it is not in use. It beeps and the **INTERCOM** key illuminates. All destination cordless handsets (except the cordless handset on the telephone base) and the telephone base ring, and the **INTERCOM/INT** keys flash.

**-OR-**

- On the telephone base, press **INT** when it is not in use. It beeps and the **INT** key illuminates. All destination cordless handsets (except the cordless handset on the telephone base) ring and the **INTERCOM** keys flash.

#### To initiate an intercom call during a call:

- During a call on the cordless handset, press **HOLD** to put the current call on hold. Then press **INTERCOM**. It beeps and the **INTERCOM** key illuminates. All destination cordless handsets (except the cordless handset on the telephone base) and the telephone base ring, and the **INTERCOM/INT** keys flash.

**-OR-**

- During a call on the telephone base, press **HOLD** to put the current call on hold. Then press **INT**. It beeps and the **INT** key illuminates. All destination cordless handsets (except the cordless handset on the telephone base) ring and the **INTERCOM** keys flash.

# Operation

## Analog cordless 2-line - A2420/CTM-A2421/CTM-A2421-BATT

### To answer an intercom call:

- Lift the cordless handset from the telephone base cradle, or press **INTERCOM** on the cordless handset.

-OR-

- Press **INT** or **Ⓜ/SPEAKER** on the telephone base.

### To answer an incoming call during an intercom call:

Press the flashing line key on the cordless handset or telephone base, or press **Ⓜ/SPEAKER** twice on the telephone base. The intercom call ends automatically.

### To end an intercom call:

- Place the cordless handset on the telephone base cradle, or press **OFF** on the cordless handset.

-OR-

- Press **INT** on the telephone base.

## Conference call

This telephone allows three-way conversations.

### To initiate a conference call:

1. Place a call to the first party.
2. Press **HOLD** to place the first party on hold.
3. Place a second call on the other line.
4. Once the second party is on the line, press **CONF** to start a three-way conference.

### To initiate a conference call while both calls are on hold:

Press **CONF** to start a three-way conference.

### To switch a conference call from the telephone base to the cordless handset:

- During a conference call on the telephone base, press **Ⓜ/SPEAKER** or **CONF** on the cordless handset, or lift the cordless handset from the telephone base.
- During a conference call on the telephone base, press **HOLD** on the telephone base and then press **CONF** on the cordless handset.

### To switch a conference call from the cordless handset to the telephone base:

- During a conference call on the cordless handset, press **Ⓜ/SPEAKER** or **CONF** on the telephone base.
- During a conference call on the cordless handset, press **HOLD** on the cordless handset and then press **CONF** on the telephone base.

### To end a conference call:

- Press a line key to maintain the connection with that line and drop the other line.
- When the conference call is at the telephone base, press **Ⓜ/SPEAKER** or **CONF** on the telephone base.
- When the conference call is on the cordless handset, press **OFF** on the cordless handset, or place it back in the telephone base, charging base or charging stand.
- When there is more than one cordless handset on the conference call, the call ends when all handsets hang up.

## Find handset

Use this feature to find all registered cordless handsets.

### To start paging:

Press **📞/FIND HANDSET** on the telephone base when the telephone is not in use. All idle cordless handsets beep for 60 seconds.

### To end paging:

- Press **📞/FIND HANDSET** again on the telephone base.

-OR-

- Press any key on the handset to stop the paging tone.

## Data port

You can connect your modem or fax machine to the telephone line through the **DATA** port. The data port routes to line 2.

# Operation

## Analog cordless 2-line accessory Petite - CTM-A242P

### Receive a call

- When there is a line 1 incoming call, the telephone rings. The **LINE 1** key flashes.
- When there is a line 2 incoming call, the telephone rings. The **LINE 2** key flashes.

#### To answer a call:

Lift the corded handset. It automatically connects to the ringing line. The respective line key illuminates when in use.

### Place a call

Lift the corded handset then press **LINE 1** or **LINE 2**. Listen for a dial tone and then dial the desired number, or press a Speed Dial key to dial a programmed number. The respective line key illuminates when in use.

### End a call

Place the corded handset back to the phone cradle.

### Switch a call between the accessory Petite and the telephone base speakerphone

- To switch a call from the accessory Petite to the telephone base speakerphone, press **☎/SPEAKER** on the telephone base.
- To switch a call from the telephone base speakerphone to the accessory Petite, lift the corded handset from the accessory phone base.

### Share a call

A maximum of four cordless handsets or accessory Petite phones can be used at the same time on an external call.

#### To join a call:

During a call on line 1 or line 2, press the respective **LINE 1** or **LINE 2** key to join.

### Volume

Listening volume and ringer volume can be adjusted from the accessory phone base.

#### To adjust the listening volume:

During a call, press **+/VOLUME** or **-/VOLUME** to adjust the listening volume. The next call returns to the default listening volume.

#### To adjust the ringer volume:

At any time, slide the **RINGER VOL** switch on the right side of the accessory Petite to adjust the ringer volume.

### Call waiting

1. When you hear a call waiting tone during a call, press **FLASH** on the accessory Petite to put your current call on hold and take the new incoming call.
2. Press **FLASH** or the switch hook once rapidly at any time to switch back and forth between calls.

### Mute

#### To mute the microphone:

1. During a call, press **MUTE** on the accessory Petite. The **MUTE** key illuminates when the mute function is turned on. You can hear the party on the other end but they cannot hear you.
2. Press **MUTE** again to resume the conversation. The light on the **MUTE** key turns off.

### Hold

When a call is placed on hold, any parallel phone that tries to use the same phone line will take the call off hold and pick the call.

#### To place a call on hold:

1. During a call, press **HOLD** on the accessory Petite to place that call on hold. The respective line key flashes when the call is placed on hold.
2. Press the flashing line key to release the call from hold. The respective line key illuminates when in use.



## Operation

### Analog cordless 2-line accessory Petite- CTM-A242P

#### Conference call

This telephone allows three-way conversations.

##### To initiate a conference call:

1. Place a call to the first party.
2. Press **HOLD** to place the first party on hold.
3. Place a second call on the other line.
4. Once the second party is on the line, press **CONF** to start a three-way conference.

##### To initiate a conference call while both calls are on hold:

Press **CONF** to start a three-way conference.

##### To end a conference call:

- Press a line key to maintain the connection with that line and drop the other line.
- Place the corded handset back in the accessory phone base to end.
- When there is more than one phone devices on the conference call, the call ends when all phone devices hang up.

#### USB port

The  port on the side of the accessory phone base can be used for charging devices (up to 1A @ 5.1V).

# Operation

## Analog corded/cordless 1-line - CTM-A2510/CTM-A2510-USB

### Using the corded handset, cordless handset and the telephone base

The corded handset, cordless handset and the telephone base cannot be used on the same call. However, calls can be switched among the corded handset, cordless handset and the telephone base speakerphone.

When the corded handset, cordless handset or the telephone base is in use, the **TALK** key on the cordless handset and the **IN USE** LED on the telephone base illuminate.

### Receive a call

When there is an incoming call, the telephone rings. The **IN USE** LED and the **MESSAGE WAITING** LED on the telephone base flash, and the **TALK** key on the cordless handset flashes.

#### To answer a call using the corded handset:

Lift the corded handset from the telephone base. The **IN USE** LED on the telephone base illuminates.

#### To answer a call using the cordless handset while it is not on the charging base or charging stand:

On the cordless handset, press **TALK** or **📞/SPEAKER**. The **TALK** key illuminates when in use. The **📞/SPEAKER** key illuminates when in speakerphone mode.

#### To answer a call using the cordless handset while it is resting on the charging base or charging stand:

Lift the cordless handset from the charging base or charging stand. The **TALK** key illuminates when in use. The **📞/SPEAKER** key illuminates when in speakerphone mode.

#### To answer a call using the telephone base:

On the telephone base, press **📞/SPEAKER**. The **IN USE** LED and the **📞/SPEAKER** key illuminate when in use.

### Place a call

#### To place a call using the corded handset:

Lift the corded handset from the telephone base. Listen for a dial tone and then dial the desired number, or press a Speed Dial key on the telephone base or cordless handset to dial a programmed number. The **IN USE** key illuminates when in use.

#### To place a call using the cordless handset:

On the cordless handset, press **TALK** or **📞/SPEAKER**. Listen for a dial tone and then dial the desired number, or press a Speed Dial key on the telephone base or cordless handset to dial a programmed number. The **TALK** key illuminates when in use. The **📞/SPEAKER** key illuminates when in speakerphone mode.

#### To place a call using the telephone base:

On the telephone base, press **📞/SPEAKER**. Listen for a dial tone and then dial the desired number, or press a Speed Dial key to dial a programmed number. The **IN USE** LED and the **📞/SPEAKER** key illuminate when in use.

### End a call

#### To end a call when using the corded handset:

Place the corded handset in the telephone base. The call ends when all handsets hang up.

#### To end a call when using the cordless handset:

Press **OFF** on the cordless handset or place it in the charging base or charging stand. The call ends when all handsets hang up.

#### To end a call when using the telephone base:

Press **📞/SPEAKER**.

### Switch a call among the corded handset, cordless handset and the telephone base speakerphone

- To switch a call from the corded or cordless handset to the telephone base speakerphone, press **📞/SPEAKER** on the telephone base.
- To switch a call from the telephone base speakerphone to the cordless handset which is not on the charging base or charging stand, press **TALK** or **📞/SPEAKER** on the cordless handset.
- To switch a call from the telephone base speakerphone to the corded handset, lift the corded handset from the telephone base.

### Share a call

A maximum of four cordless handsets or accessory Petite phones can be used at the same time on an external call.

#### To join a call:

During a call, press **TALK** or **📞/SPEAKER** on another cordless handset to join.

# Operation

## Analog corded/cordless 1-line - CTM-A2510/CTM-A2510-USB

### Handset speakerphone

During a call, press **Ⓜ/SPEAKER** on the cordless handset to switch between speakerphone mode and handset earpiece mode.

### Redial

The last dialed number on the cordless handset or the telephone base is stored for 15 minutes.

#### To redial the last dialed number from the corded handset:

Lift the corded handset from the telephone base. Listen for a dial tone. Then press **REDIAL**.

#### To redial the last dialed number from the cordless handset:

Press **TALK** or **Ⓜ/SPEAKER**. Listen for a dial tone. Then press **REDIAL**.

#### To redial the last dialed number from the telephone base:

Press **Ⓜ/SPEAKER**. Listen for a dial tone. Then press **REDIAL**.

### Volume

Listening volume can be adjusted on the cordless handset and the telephone base.

#### To adjust the listening volume:

- During a call on the handset, press **-/VOLUME/+** on it to adjust the listening volume. The next call returns to the default listening volume.
- During a call on the telephone base, press **+/VOLUME** or **-/VOLUME** on it to adjust the listening volume. The next call returns to the default listening volume.

Ringer volume of the telephone base can be adjusted.

#### To adjust the ringer volume of the telephone base:

When the telephone base is idle, press **+/VOLUME** or **-/VOLUME** on it to adjust the ringer volume.

### Call waiting

1. When you hear a call waiting tone during a call, press **FLASH** on the cordless handset or telephone base to put the current call on hold and take the new incoming call.
2. Press **FLASH** or the switch hook once rapidly at any time to switch back and forth between calls.

### Mute

#### To mute the microphone:

1. During a call, press **MUTE** on the cordless handset or telephone base. The **MUTE** key illuminates when the mute function is turned on. You can hear the party on the other end but they cannot hear you.
2. Press **MUTE** again to resume the conversation. The light on the **MUTE** key turns off.

### Hold

When a call is placed on hold, any parallel phone that tries to use the same phone line will take the call off hold and pick the call.

#### To place a call on hold on the cordless handset:

1. During a call, press **HOLD** on the cordless handset. The **TALK** key on the cordless handset and the **HOLD** key on the telephone base flash when the call is on hold.
2. Press **TALK** or **Ⓜ/SPEAKER** to release the call from hold, or the call will end automatically after the preset call on hold duration.

#### To place a call on hold on the telephone base:

1. During a call, press **HOLD** on the telephone base. The **HOLD** key flashes when the call is on hold.
2. Press **Ⓜ/SPEAKER** to release the call from hold, or the call will end automatically after the preset call on hold duration.

## Operation

### Analog corded/cordless 1-line - CTM-A2510/CTM-A2510-USB

#### Find handset

Use this feature to find all registered cordless handsets.

#### To start paging:

Press **FIND HANDSET** on the telephone base when the telephone is not in use. All idle cordless handsets beep for 60 seconds.

#### To end paging:

- Press **FIND HANDSET** again on the telephone base.

**-OR-**

- Press any key on the cordless handset to stop the paging tone.

#### Data port

You can connect your modem or fax machine to the telephone line through the DATA port.

#### USB port (for CTM-A2510-USB only)

The  port on the side of the charging stand can be used for charging devices (up to 1A @ 5.1V).

## Appendix

### Handset battery

It takes up to 16 hours for the battery to be fully charged. When it is fully charged, you can expect the following performance:

| Operation                             | Operating time |
|---------------------------------------|----------------|
| While in handset use (talking*)       | Up to 7 hours  |
| While in speakerphone mode (talking*) | Up to 5 hours  |
| While not in use (standby**)          | Up to 7 days   |

\* Operating times vary depending on your actual use and the age of the battery.

\*\* Handset is not charging or in use.

The battery needs charging when:

- A new battery is installed in the handset.
- **LOW BATTERY** LED flashes on the cordless handset.

#### CAUTION:

To reduce the risk of fire or injury, read and follow these instructions:

- Use only the supplied rechargeable battery (BT264392/BT266342) or replacement battery (BT266342). To order a replacement, visit our website at [www.vtechhotelphones.com](http://www.vtechhotelphones.com) or call 1-888-907-2007.
- Do not dispose of the battery in a fire. Check with local waste management codes for special disposal instructions.
- Do not open or mutilate the battery. Released electrolyte is corrosive and may cause burns or injury to the eyes or skin. The electrolyte may be toxic if swallowed.
- Exercise care in handling the battery in order not to create a short circuit with conductive materials.
- Charge the battery provided with or identified for use with this product only in accordance with the instructions and limitations specified in this manual.
- Observe proper polarity orientation between the battery and metallic contacts.
- To prevent fire or shock hazard, do not expose this product to water or any type of moisture.

# Appendix

## Troubleshooting

### For cordless telephones:

#### The telephone does not work at all.

- Make sure the RJ-45 cord is plugged into the **TEL** port of the telephone base.
- Make sure the power adapter is securely plugged into an outlet not controlled by a wall switch.
- Make sure the telephone line cord is plugged firmly into the power adapter and the telephone wall jack.
- Make sure the battery is installed and charged correctly. For optimum daily performance, return the cordless handset to the telephone base, charging base or charging stand after use.
- Unplug the electrical power to the telephone base. Wait for approximately 15 seconds, then plug it back in. Allow up to one minute for the cordless handset and telephone base to synchronize.
- Charge the battery in the cordless handset for up to 16 hours.
- If the battery is completely depleted, it may take up to 30 minutes to charge the cordless handset before the **LOW BATTERY** LED flashes on the cordless handset.
- Remove and install the battery again. If that still does not work, it may be necessary to purchase a new battery.
- Disconnect the telephone base from the telephone wall jack and plug in a working telephone. If the other telephone does not work, the problem is probably in the wiring or telephone service. Contact your telephone service provider (charges may apply).

#### There is no dial tone.

- Try all the above suggestions.
- Move the cordless handset closer to the telephone base or adjust the setting of RF transmission power. It may be out of range.
- The telephone line cord may be defective. Install a new telephone line cord.
- Disconnect the telephone base from the telephone wall jack and connect a different telephone. If there is no dial tone on this telephone either, the problem is in your wiring or telephone service. Contact your telephone service provider (charges may apply).

#### I cannot dial out.

- Try all the above suggestions.
- Make sure there is a dial tone before dialing. It is normal if the cordless handset takes a second or two to synchronize with the telephone base before producing a dial tone. Wait an extra second before dialing.
- Eliminate any background noise. Mute the telephone before dialing, or dial from another room in your unit with less background noise.
- If other telephones in your hotel are having the same problem, the problem is in the wiring or telephone service. Contact your telephone service provider (charges may apply).

#### The **LOW BATTERY** LED flashes on the cordless handset.

- Place the cordless handset in the telephone base, charging base or charging stand for recharging.
- Remove and install the battery again and use it until fully depleted, then charge the cordless handset in the telephone base, charging base or charging stand for up to 16 hours.
- If the above measures do not correct the problem, replace the battery.

#### The battery does not charge in the cordless handset or the battery does not accept charge.

- Make sure the cordless handset is placed in the telephone base, charging base or charging stand correctly. The **CHARGE** LED should be on.
- Remove and install the battery again, then charge for up to 16 hours.
- If the cordless handset is in the telephone base, charging base or charging stand but the **CHARGE** LED is not on, refer to **The CHARGE LED is off** below.
- If the battery is completely depleted, charge it for at least 30 minutes before use.
- If the above measures do not correct the problem, replace the battery.

#### The **CHARGE** LED is off.

- Clean the charging contacts on the cordless handset, telephone base, charging base and charging stand each month with a pencil eraser or a dry non-abrasive fabric.
- Make sure the power adapter and telephone line cord are plugged in correctly and securely.
- Unplug the power adapter. Wait for 15 seconds before plugging it back in. Allow up to one minute for the cordless handset and telephone base to reset.

# Appendix

## Troubleshooting

### For cordless telephones:

#### The telephone does not ring when there is an incoming call.

- Make sure the telephone line cord and the power adapter are plugged in properly.
- The cordless handset may be too far from the telephone base. Move it closer to the telephone base.
- Adjust the setting of RF transmission power. It may be out of range.
- If other telephones in your hotel are having the same problem, the problem is in the wiring or telephone service. Contact your telephone service provider (charges may apply).
- Other electronic products such as HAM radios and other DECT phones can cause interference with your cordless phone. Try installing your phone as far away as possible from these types of electronic devices.
- Test a working telephone at the telephone wall jack. If another telephone has the same problem, the problem is in the telephone wall jack. Contact your telephone service provider (charges may apply).
- The telephone line cord may be defective. Install a new telephone line cord.
- Remove and install the battery again and place the cordless handset in the telephone base. Wait for the handset to synchronize with the telephone base. Allow up to one minute for this to take place.

#### The cordless handset beeps and is not performing normally.

- Make sure the power cord is securely plugged into the telephone base. Plug the telephone base into a different working electrical outlet not controlled by a wall switch.
- Move the cordless handset closer to the telephone base or adjust the setting of RF transmission power. It may be out of range.
- Reset the telephone base by unplugging the electrical power to the base. Wait for 15 seconds and plug it back in again. Allow up to one minute for the cordless handset and the telephone base to synchronize.
- Other electronic products such as HAM radios and other DECT phones can cause interference with your cordless phone. Try installing your phone as far away as possible from these types of electronic devices.

#### There is interference during a telephone conversation or the call fades in and out when I am using the cordless handset.

- Move the handset closer to the telephone base or adjust the setting of RF transmission power. It may be out of range.
- If there is High Speed Internet Access (HSIA) available at the premises through a telephone line, you may need to install a DSL filter (DSL - digital subscriber line) between the telephone line cord and the telephone wall jack. The filter prevents noise and caller ID problems caused by DSL interference. Contact your DSL service provider for more information about DSL filters.
- Appliances or other cordless telephones plugged into the same circuit as the telephone base can cause interference. Try moving the appliance or telephone base to another outlet.
- Other electronic products such as HAM radios and other DECT phones can cause interference with your cordless phone. Try installing your phone as far away as possible from these types of electronic devices.
- If your telephone is plugged in with a modem or a surge protector, plug the telephone (or modem/surge protector) into a different location. If this doesn't solve the problem, relocate your telephone or modem farther apart from each other, or use a different surge protector.
- The location of your telephone base can impact the performance of your cordless phone. For better reception, install the telephone base in a centralized location within the room, away from walls or other obstructions.
- Disconnect the telephone base from the telephone wall jack and plug in a corded telephone. If calls are still not clear, the problem is probably in the wiring or telephone service. Contact your telephone service provider (charges may apply).
- If other telephones in your hotel are having the same problem, the problem is in the wiring or telephone service. Contact your telephone service provider (charges may apply).

#### I hear other calls when using the telephone.

- Disconnect the telephone base from the telephone wall jack. Plug in a different telephone. If you still hear other calls, the problem is probably in the wiring or telephone service. Contact your telephone service provider (charges may apply).

#### I hear noise on the cordless handset and the keys do not work.

- Make sure the telephone line cord is plugged in securely.

#### Common cure for electronic equipment.

- If the telephone is not responding normally, put the cordless handset in the telephone base. If it does not fix the problem, try the following (in the order listed):
  1. Disconnect the power to the telephone base.
  2. Disconnect the battery on the cordless handset.
  3. Wait a few minutes before connecting power to the telephone base.
  4. Install the battery again and place the cordless handset in the telephone base.
  5. Wait for the cordless handset to synchronize with the telephone base. Allow up to one minute for this to take place.

## Appendix

### Operating range

The cordless telephone operates with the maximum power allowed by the Federal Communications Commission (FCC). Even so, the cordless handset and telephone base can communicate over only a certain distance - which can vary with the locations of the telephone base, cordless handset, the weather, and the layout of the hotel.

When the cordless handset is out of range while on a call, the cordless handset rapidly beeps three times.

If there is a call while the handset is out of range, it may not ring, or if it does ring, the call may not connect well when you answer the call. Move closer to the telephone base to answer the call.

If the handset moves out of range during a telephone conversation, there may be interference.

To improve reception, move closer to the telephone base.

### About cordless telephones

- **Privacy:** The same features that make a cordless telephone convenient create some limitations. Telephone calls are transmitted between the telephone base and the cordless handset by radio waves, so there is a possibility that the cordless telephone conversations could be intercepted by radio receiving equipment within range of the cordless handset. For this reason, you should not think of cordless telephone conversations as being as private as those on corded telephones.
- **Electrical power:** The telephone base of the cordless telephone must be connected to a working electrical outlet. The electrical outlet should not be controlled by a wall switch. Calls cannot be made from the cordless handset if the telephone base is unplugged, switched off or if the electrical power is interrupted.
- **Potential TV interference:** Some cordless telephones operate at frequencies that may cause interference to televisions and VCRs. To minimize or prevent such interference, do not place the telephone base of the cordless telephone near or on top of a TV or VCR. If interference is experienced, moving the cordless telephone farther away from the TV or VCR often reduces or eliminates the interference.
- **Rechargeable batteries:** Exercise care in handling batteries in order not to create a short circuit with conducting material such as rings, bracelets and keys. The battery or conductor may overheat and cause harm. Observe proper polarity between the battery and the battery charger.
- **Nickel-metal hydride rechargeable batteries:** Dispose of these batteries in a safe manner. Do not burn or puncture the battery. Like other batteries of this type, if burned or punctured, they could release caustic material which could cause injury.

### The RBRC® seal

The RBRC® seal on the nickel-metal hydride battery indicates that VTech Communications, Inc. is voluntarily participating in an industry program to collect and recycle these batteries at the end of their useful lives, when taken out of service within the United States and Canada.

The RBRC® program provides a convenient alternative to placing used nickel-metal hydride batteries into the trash or municipal waste, which may be illegal in your area.

VTech's participation in RBRC® makes it easy for you to drop off the spent battery at local retailers participating in the RBRC® program or at authorized VTech product service centers. Please call 1 (800) 8 BATTERY™ for information on Ni-MH battery recycling and disposal bans/restrictions in your area. VTech's involvement in this program is part of its commitment to protecting our environment and conserving natural resources.

RBRC® is a registered trademark of Rechargeable Battery Recycling Corporation.





# Appendix

## VTech Hospitality limited warranty program

VTech Communications, Inc., the manufacturer of VTech Hospitality Product ("Product"), warrants to the holder of a valid proof of purchase ("end user" or "you") that the Product and all accessories provided by VTech in the Product's package are free from defects in material and workmanship, pursuant to the following terms and conditions, when installed and used normally and in accordance with the Product's operating instructions. The limited warranty extends to the end user of this Product and applies only if such Product is purchased through a United States of America and/or Canadian distributor. The limited warranty period for this Product is determined based on the following:

### 5 Years – Analog Models

- All Classic Models – corded and cordless
- All Contemporary Models – corded and cordless
- All TrimStyle Models

### 2 Years – SIP Non-Display Models

- All Classic Models – corded and cordless
- All Contemporary Models – corded and cordless
- All TrimStyle Models

During the limited warranty period, VTech's authorized service representative will repair or replace, at VTech's option, without charge, a Product that is not free from defects in materials and workmanship. If VTech's authorized service representative repairs the Product, new or refurbished replacement parts may be used. If the Product is replaced, it may be replaced with a new or refurbished Product of the same or similar design. Repair or replacement of Product, at VTech's option, is the exclusive remedy.

The limited warranty period for the Product begins on the date that the end user takes possession of the Product. This limited warranty also applies to repaired or replacement Products for a period of either: (a) 90 days from the date the repaired or replacement Product is shipped to you; or (b) the time remaining on the original limited warranty as described above; whichever is longer.

This limited warranty does not cover:

1. Product or parts that have been subjected to misuse, accident, shipping or other physical damage, improper installation, abnormal operation or handling, neglect, inundation, fire, water or other liquid intrusion; or
2. Product that has been damaged due to repair, alteration or modification by anyone other than an authorized service representative of VTech; or
3. Product to the extent that the problem experienced is caused by signal conditions, network reliability or cable or antenna systems; or
4. Product to the extent that the problem is caused by use with non-VTech accessories; or
5. Product whose warranty/quality stickers, product serial number plates or electronic serial numbers have been removed, altered or rendered illegible; or
6. Product purchased, used, serviced, or shipped for repair from outside the United States or Canada, or used for non-approved commercial or institutional purposes (including but not limited to Products used for rental purposes); or
7. Product returned without valid proof of purchase; or
8. Charges or costs incurred by the end user, and risk of loss or damage, in removing and shipping the Product, or for installation or set up, adjustment of customer controls, and installation or repair of systems outside the unit.
9. Line cords or coil cords, plastic overlays, connectors, power adapters and batteries, if the Product is returned without them. VTech will charge the end user at then-current prices for each of the missing items.
10. NiCd or NiMH handset batteries, or power adapters, which, under all circumstances, are covered by a one (1) year warranty only.

Except as provided by applicable law, you assume the risk of loss or damage during transit and transportation and are responsible for delivery or handling charges incurred in the transport of Product(s) to the service location. VTech's authorized service representative will return repaired or replaced product under this limited warranty to you. Transportation, delivery and handling charges are prepaid. VTech assumes no risk for damage or loss of the Product in transit.

If the Product failure is not covered by this limited warranty, or proof of purchase does not meet the terms of this limited warranty, VTech will notify you and will request that you authorize the cost of repair and return shipping costs for the repair of Products that not covered by this limited warranty. You must pay for the cost of repair and return shipping costs for the repair of Products that are not covered by this limited warranty.

### Other limitations

This warranty is the complete and exclusive agreement between you and VTech. It supersedes all other written or oral communications related to this Product. VTech provides no other warranties for this Product, whether express or implied, oral or written, or statutory. The warranty exclusively describes all of VTech's responsibilities regarding the Product. No one is authorized to make modifications to this warranty and you should not rely on any such modification.

VTech's liability to end user hereunder shall not exceed the purchase price of the Product. In no event shall VTech be liable for any indirect, special, incidental, consequential, or similar damages (including, but not limited to lost profits or revenue, inability to use the product, or other associated equipment, the cost of substitute equipment, and claims by third parties) resulting from the use of this Product. Some states/provinces do not allow the exclusion or limitation of incidental or consequential damages, so the above limitation or exclusion may not apply to you.

This warranty gives you specific legal rights, and you also have other rights which vary from state to state or province to province.

# Appendix

## FCC, ACTA and IC regulations

### FCC Part 15

This equipment has been tested and found to comply with the requirements for a Class B digital device under Part 15 of the Federal Communications Commission (FCC) rules. These requirements are intended to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

Changes or modifications to this equipment not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

This device complies with Part 15 of the FCC rules. Operation is subject to the following two conditions: (1) this device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.

For cordless telephone only - Privacy of communications may not be ensured when using this telephone.

For cordless telephone only - To ensure safety of users, the FCC has established criteria for the amount of radio frequency energy that can be safely absorbed by a user or bystander according to the intended usage of the product. This product has been tested and found to comply with the FCC criteria. The handset may be safely held against the ear of the user. The telephone base shall be installed and used such that parts of the user's body other than the hands are maintained at a distance of approximately 20 cm (8 inches) or more.

This Class B digital apparatus complies with Canadian ICES-003.

### FCC Part 68 and ACTA

This equipment complies with Part 68 of the FCC rules and with technical requirements adopted by the Administrative Council for Terminal Attachments (ACTA). The label on the back or bottom of this equipment contains, among other things, a product identifier in the format US:AAAKXNANXXXX. This identifier must be provided to your telephone service provider upon request.

The plug and jack used to connect this equipment to premises wiring and the telephone network must comply with applicable Part 68 rules and technical requirements adopted by ACTA. A compliant telephone cord and modular plug is provided with this product. It is designed to be connected to a compatible modular jack that is also compliant. An RJ11 jack should normally be used for connecting to a single line and an RJ14 jack for two lines. See the installation instructions in the user's manual.

The Ringer Equivalence Number (REN) is used to determine how many devices you may connect to your telephone line and still have them ring when you are called. The REN for this product is encoded as the 6th and 7th characters following the US: in the product identifier (e.g., if ## is 03, the REN is 0.3). In most, but not all areas, the sum of all RENs should be five (5.0) or less. For more information, please contact your telephone service provider.

This equipment may not be used with Party Lines. If you have specially wired alarm dialing equipment connected to your telephone line, ensure the connection of this equipment does not disable your alarm equipment. If you have questions about what will disable alarm equipment, consult your telephone service provider or a qualified installer.

If this equipment is malfunctioning, it must be unplugged from the modular jack until the problem has been corrected. Repairs to this telephone equipment can only be made by the manufacturer or its authorized agents. For repair procedures, follow the instructions outlined under **VTech Hospitality limited warranty program** in the user's manual.

If this equipment is causing harm to the telephone network, your telephone service provider may temporarily discontinue your telephone service. Your telephone service provider is required to notify you before interrupting service. If advance notice is not practical, you will be notified as soon as possible. You will be given the opportunity to correct the problem and your telephone service provider is required to inform you of your right to file a complaint with the FCC. Your telephone service provider may make changes in its facilities, equipment, operation, or procedures that could affect the proper functioning of this product. Your telephone service provider is required to notify you if such changes are planned.

If this product is equipped with a corded or cordless handset, it is hearing aid compatible.

If this product has memory dialing locations, you may choose to store emergency telephone numbers (e.g., police, fire, medical) in these locations. If you do store or test emergency numbers, please:

Remain on the line and briefly explain the reason for the call before hanging up.

Perform such activities in off-peak hours, such as early morning or late evening.

When the adjunct is used with a leased system, permission of the owner of the equipment must be obtained for connection of the adjunct because modification of the host system is often required.

This product can only be connected to the host equipment and never directly to the network.

### Industry Canada

Operation is subject to the following two conditions: (1) this device may not cause harmful interference, and (2) this device must accept any interference, including interference that may cause undesired operation.

The term "IC:" before the certification/registration number only signifies that the Industry Canada technical specifications were met.

This product meets the applicable Industry Canada technical specifications.

## Appendix

### Energy-saving charging mode

When this mode is activated, all telephone functions, except handset battery charging, will be disabled.

#### To activate the energy-saving charging mode in A2410/A2420/CTM-A2411/CTM-A2421:

1. Unplug the telephone base power adapter from the power outlet. Unplug the telephone line cord from the telephone wall jack. Make sure all handsets are plugged with charged batteries before proceeding.
2. While you **press and hold** **■/FIND HANDSET**, plug the telephone base power back to the power outlet.
3. After about 20 seconds, when the **IN USE** light starts flashing, release **■/FIND HANDSET** and then press it again within 2 seconds. When the telephone base successfully enters the energy-saving charging mode, all keys on the telephone base should not respond.
4. Press **\*331734#** and then press **HOLD** to deregister each handset manually.



When the phone successfully enters the energy-saving mode, the **IN USE** light turns off and you hear 3 rising beeps.

When the phone fails to enter this mode, repeat Step 1 through Step 3 above.

**Note:** The telephone base will be powered up as normal if you fail to press **■/FIND HANDSET** within 2 seconds in Step 3.

#### To deactivate the energy-saving charging mode:

1. Unplug the telephone base power adapter from the power outlet. Then plug the telephone base power adapter and the telephone line cord back in. Then the telephone base is powered up as normal.
2. Register the handsets back to the telephone base. See page 34 or 36 for handset registration instructions.

#### To activate the energy-saving charging mode in CTM-A2411-BATT/CTM-A2421-BATT:

1. Unplug the telephone base power adapter from the power outlet. Unplug the telephone line cord from the telephone wall jack, and the backup battery from the telephone base. Make sure all handsets are plugged with charged batteries before proceeding.
2. While you **press and hold** **■/FIND HANDSET**, plug the telephone base power back to the power outlet.
3. After about 20 seconds, when the **IN USE** light starts flashing, release **■/FIND HANDSET** and then press it again within 2 seconds. When the telephone base successfully enters the energy-saving charging mode, all keys on the telephone base should not respond.
4. Press **\*331734#** and then press **HOLD** to deregister each handset manually.



When the phone successfully enters the energy-saving mode, the **IN USE** light turns off and you hear 3 rising beeps.

When the phone fails to enter this mode, repeat Step 1 through Step 3 above.

**Note:** The telephone base will be powered up as normal if you fail to press **■/FIND HANDSET** within 2 seconds in Step 3.

#### To deactivate the energy-saving charging mode:

1. Unplug the telephone base power adapter from the power outlet. Then plug the telephone base power adapter and the telephone line cord back in, and plug the backup battery back in the telephone base. Then the telephone base is powered up as normal.
2. Register the handsets back to the telephone base. See page 36 for handset registration instructions.

#### To activate the energy-saving charging mode in CTM-A2510/CTM-A2510-USB:

- When a registered cordless handset is idle, press **\*331734#** and then press **HOLD**. You hear 3 rising beeps.

#### To deactivate the energy-saving charging mode:

- Register the handsets back to the telephone base. See page 43 for handset registration instructions.

#### To activate the energy-saving charging mode in cordless handsets (C4100/C4200/CTM-A241HS/CTM-A242HS/CTM-A241SD/CTM-A242SD/CTM-C4101/CTM-C4201):

- When a registered cordless handset is idle, press **\*331734#** and then press **HOLD**. You hear 3 rising beeps. Then put the handset into the charging base (**C4000/C4001**) or charging stand (**C4010/C4011/C4011-USB/CTM-A241HS/CTM-A242HS/CTM-A241SD/CTM-A242SD**).

#### To deactivate the energy-saving charging mode:

- Register the handsets back to the corresponding telephone base. See page 50 or 52 for handset registration instructions.

# Appendix

## Maintenance

### **Taking care of the telephone**

The telephone contains sophisticated electronic parts, so it must be treated with care.

### **Avoid rough treatment**

Place the handset down gently. Save the original packing materials to protect the telephone if you ever need to ship it.

### **Avoid water**

The telephone can be damaged if it gets wet. Do not use the handset outdoors in the rain, or handle it with wet hands. Do not install the telephone base near a sink, bathtub or shower.

### **Electrical storms**

Electrical storms can sometimes cause power surges harmful to electronic equipment. For your own safety, take caution when using electrical appliances during storms.

### **Cleaning the telephone**

The telephone has a durable plastic casing that should retain its luster for many years. Clean it only with a soft cloth slightly dampened with water or mild soap. Do not use excess water or cleaning solvents of any kind.

Remember that electrical appliances can cause serious injury if used when you are wet or standing in water. If the telephone base should fall into water, DO NOT RETRIEVE IT UNTIL YOU UNPLUG THE POWER CORD AND/OR TELEPHONE LINE CORD FROM THE WALL. Then remove the telephone by the unplugged cords.

# Appendix

## Technical specifications

### Analog cordless 1-line/2-line - A2410/A2420

|                         |                                                                                                                                |
|-------------------------|--------------------------------------------------------------------------------------------------------------------------------|
| Frequency Control       | Crystal controlled PLL synthesizer                                                                                             |
| Transmit frequency      | Handset: 1921.536-1928.448 MHz<br>Telephone base: 1921.536-1928.448 MHz                                                        |
| Channels                | 5                                                                                                                              |
| Nominal effective range | Maximum power allowed by FCC and IC. Actual operating range may vary according to environmental conditions at the time of use. |
| Power requirements      | Handset: 2.4V Ni-MH battery<br>Telephone base: 6V DC @600mA                                                                    |
| Message waiting signal  | Steady/periodic high voltage pulse, periodic low voltage pulse, reverse polarity, FSK, Siemens and/or Panasonic                |
| Speed Dial memory       | Telephone base: up to 10 memory locations; up to 32 digits                                                                     |
| Size                    | Telephone base: 8.03 x 6.06 x 3.78 in (204 x 154 x 96 mm)<br>Handset: 8.39 x 1.89 x 1.65 in (213 x 48 x 42 mm)                 |

### Analog cordless 1-line/2-line - CTM-A2411/CTM-A2411-BATT/CTM-A2421/CTM-A2421-BATT

|                         |                                                                                                                                                               |
|-------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Frequency Control       | Crystal controlled PLL synthesizer                                                                                                                            |
| Transmit frequency      | Handset: 1921.536-1928.448 MHz<br>Telephone base: 1921.536-1928.448 MHz                                                                                       |
| Channels                | 5                                                                                                                                                             |
| Nominal effective range | Maximum power allowed by FCC and IC. Actual operating range may vary according to environmental conditions at the time of use.                                |
| Power requirements      | Handset: 2.4V Ni-MH battery<br>Telephone base: 6V DC @600mA,<br>Telephone base backup battery (for <b>CTM-A2411-BATT/CTM-A2421-BATT</b> ): 2.4V Ni-MH battery |
| Message waiting signal  | Steady/periodic high voltage pulse, periodic low voltage pulse, reverse polarity, FSK, Siemens and/or Panasonic                                               |
| Speed Dial memory       | Telephone base: up to 11 memory locations; up to 32 digits<br>Handset: up to 3 memory locations; up to 32 digits                                              |
| Size                    | Telephone base: 8.03 x 6.06 x 3.78 in (204 x 154 x 96 mm)<br>Handset: 8.39 x 1.89 x 1.65 in (213 x 48 x 42 mm)                                                |

### Analog corded/cordless 1-line - CTM-A2510

|                         |                                                                                                                                                                            |
|-------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Frequency Control       | Crystal controlled PLL synthesizer                                                                                                                                         |
| Transmit frequency      | Handset: 1921.536-1928.448 MHz<br>Telephone base: 1921.536-1928.448 MHz                                                                                                    |
| Channels                | 5                                                                                                                                                                          |
| Nominal effective range | Maximum power allowed by FCC and IC. Actual operating range may vary according to environmental conditions at the time of use.                                             |
| Power requirements      | Handset: 2.4V Ni-MH battery<br>Telephone base: 6V DC @600mA<br>Charging stand: 6V DC @400mA                                                                                |
| Message waiting signal  | Steady/periodic high voltage pulse, periodic low voltage pulse, reverse polarity, FSK, Siemens and/or Panasonic                                                            |
| Speed Dial memory       | Telephone base: up to 11 memory locations; up to 32 digits<br>Cordless handset: up to 3 memory locations; up to 32 digits                                                  |
| Size                    | Telephone base: 8.03 x 6.06 x 3.78 in (204 x 154 x 96 mm)<br>Handset: 8.39 x 1.89 x 1.65 in (213 x 48 x 42 mm)<br>Charging stand: 3.78 x 2.80 x 4.29 in (96 x 71 x 109 mm) |

# Appendix

## Technical specifications

### Analog corded/cordless 1-line - CTM-A2510-USB

|                         |                                                                                                                                                                            |
|-------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Frequency Control       | Crystal controlled PLL synthesizer                                                                                                                                         |
| Transmit frequency      | Handset: 1921.536-1928.448 MHz<br>Telephone base: 1921.536-1928.448 MHz                                                                                                    |
| Channels                | 5                                                                                                                                                                          |
| Nominal effective range | Maximum power allowed by FCC and IC. Actual operating range may vary according to environmental conditions at the time of use.                                             |
| Power requirements      | Handset: 2.4V Ni-MH battery<br>Telephone base: 6V DC @600mA<br>Charging stand: 6V DC @1400mA                                                                               |
| Message waiting signal  | Steady/periodic high voltage pulse, periodic low voltage pulse, reverse polarity, FSK, Siemens and/or Panasonic                                                            |
| Speed Dial memory       | Telephone base: up to 11 memory locations; up to 32 digits<br>Cordless handset: up to 3 memory locations; up to 32 digits                                                  |
| Size                    | Telephone base: 8.03 x 6.06 x 3.78 in (204 x 154 x 96 mm)<br>Handset: 8.39 x 1.89 x 1.65 in (213 x 48 x 42 mm)<br>Charging stand: 3.78 x 2.80 x 4.29 in (96 x 71 x 109 mm) |
| USB charging port       | Provide charging current up to 1A                                                                                                                                          |

### Analog cordless 1-line/2-line deskset - CTM-A241P/CTM-A242P

|                         |                                                                                                                                |
|-------------------------|--------------------------------------------------------------------------------------------------------------------------------|
| Frequency Control       | Crystal controlled PLL synthesizer                                                                                             |
| Transmit frequency      | 1921.536-1928.448 MHz                                                                                                          |
| Channels                | 5                                                                                                                              |
| Nominal effective range | Maximum power allowed by FCC and IC. Actual operating range may vary according to environmental conditions at the time of use. |
| Power requirement       | 5.1V DC @1.3 A                                                                                                                 |
| USB port                | Provide charging current up to 1A                                                                                              |
| Speed Dial memory       | Accessory Petite: up to 11 memory locations; up to 32 digits                                                                   |
| Size                    | Accessory Petite: 8.03 x 6.06 x 3.78 in (204 x 154 x 96 mm)<br>Corded handset: 8.39 x 1.89 x 1.65 in (213 x 48 x 42 mm)        |

## Appendix

### Technical specifications

#### Analog cordless 1-line/2-line accessory handset and charger bundle - CTM-A241HS/CTM-A242HS

|                         |                                                                                                                                |
|-------------------------|--------------------------------------------------------------------------------------------------------------------------------|
| Frequency Control       | Crystal controlled PLL synthesizer                                                                                             |
| Transmit frequency      | 1921.536-1928.448 MHz                                                                                                          |
| Channels                | 5                                                                                                                              |
| Nominal effective range | Maximum power allowed by FCC and IC. Actual operating range may vary according to environmental conditions at the time of use. |
| Power requirement       | Cordless handset: 2.4V Ni-MH battery<br>Charging stand: 6V DC @400mA                                                           |
| Message waiting signal  | Steady/periodic high voltage pulse, periodic low voltage pulse, reverse polarity, FSK, Siemens and/or Panasonic                |
| Size                    | Cordless handset: 8.39 x 1.89 x 1.65 in (213 x 48 x 42 mm)<br>Charging stand: 3.78 x 2.80 x 4.29 in (96 x 71 x 109 mm)         |

#### Analog cordless 1-line/2-line accessory handset with speed dials and charger bundle - CTM-A241SD/CTM-A242SD

|                         |                                                                                                                                |
|-------------------------|--------------------------------------------------------------------------------------------------------------------------------|
| Frequency Control       | Crystal controlled PLL synthesizer                                                                                             |
| Transmit frequency      | 1921.536-1928.448 MHz                                                                                                          |
| Channels                | 5                                                                                                                              |
| Nominal effective range | Maximum power allowed by FCC and IC. Actual operating range may vary according to environmental conditions at the time of use. |
| Power requirement       | Cordless handset: 2.4V Ni-MH battery<br>Charging stand: 6V DC @400mA                                                           |
| Message waiting signal  | Steady/periodic high voltage pulse, periodic low voltage pulse, reverse polarity, FSK, Siemens and/or Panasonic                |
| Speed Dial memory       | Handset: up to 3 memory locations; up to 32 digits                                                                             |
| Size                    | Cordless handset: 8.39 x 1.89 x 1.65 in (213 x 48 x 42 mm)<br>Charging stand: 3.78 x 2.80 x 4.29 in (96 x 71 x 109 mm)         |

# Appendix

## Technical specifications

### Analog cordless 1-line/2-line accessory handset - C4100/C4200

|                         |                                                                                                                                |
|-------------------------|--------------------------------------------------------------------------------------------------------------------------------|
| Frequency Control       | Crystal controlled PLL synthesizer                                                                                             |
| Transmit frequency      | 1921.536-1928.448 MHz                                                                                                          |
| Channels                | 5                                                                                                                              |
| Nominal effective range | Maximum power allowed by FCC and IC. Actual operating range may vary according to environmental conditions at the time of use. |
| Power requirement       | 2.4V Ni-MH battery                                                                                                             |
| Message waiting signal  | Steady/periodic high voltage pulse, periodic low voltage pulse, reverse polarity, FSK, Siemens and/or Panasonic                |
| Size                    | 8.39 x 1.89 x 1.65 in (213 x 48 x 42 mm)                                                                                       |

### Analog cordless 1-line/2-line accessory handset - C4101/C4201

|                         |                                                                                                                                |
|-------------------------|--------------------------------------------------------------------------------------------------------------------------------|
| Frequency Control       | Crystal controlled PLL synthesizer                                                                                             |
| Transmit frequency      | 1921.536-1928.448 MHz                                                                                                          |
| Channels                | 5                                                                                                                              |
| Nominal effective range | Maximum power allowed by FCC and IC. Actual operating range may vary according to environmental conditions at the time of use. |
| Power requirement       | 2.4V Ni-MH battery                                                                                                             |
| Message waiting signal  | Steady/periodic high voltage pulse, periodic low voltage pulse, reverse polarity, FSK, Siemens and/or Panasonic                |
| Speed Dial memory       | Handset: up to 3 memory locations; up to 32 digits                                                                             |
| Size                    | 8.39 x 1.89 x 1.65 in (213 x 48 x 42 mm)                                                                                       |



# Appendix

## Technical specifications

### Analog cordless charging base - C4000

|                   |                                          |
|-------------------|------------------------------------------|
| Power requirement | 6V DC @600mA                             |
| Size              | 8.11 x 3.70 x 2.87 in (206 x 94 x 73 mm) |

### Analog cordless charging base - C4001

|                   |                                          |
|-------------------|------------------------------------------|
| Power requirement | 6V DC @400mA                             |
| Size              | 8.11 x 3.70 x 2.87 in (206 x 94 x 73 mm) |

### Analog cordless charging stand - C4010

|                   |                                          |
|-------------------|------------------------------------------|
| Power requirement | 6V DC @600mA                             |
| Size              | 3.78 x 2.80 x 4.29 in (96 x 71 x 109 mm) |

### Analog cordless charging stand - C4011

|                   |                                          |
|-------------------|------------------------------------------|
| Power requirement | 6V DC @400mA                             |
| Size              | 3.78 x 2.80 x 4.29 in (96 x 71 x 109 mm) |

### Analog cordless charging stand - C4011-USB

|                   |                                          |
|-------------------|------------------------------------------|
| Power requirement | 6V DC @1400mA                            |
| Size              | 3.78 x 2.80 x 4.29 in (96 x 71 x 109 mm) |
| USB charging port | Provide charging current up to 1A        |



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