

# snom M500 Multi-Cell SIP DECT Base Station Installation Guide

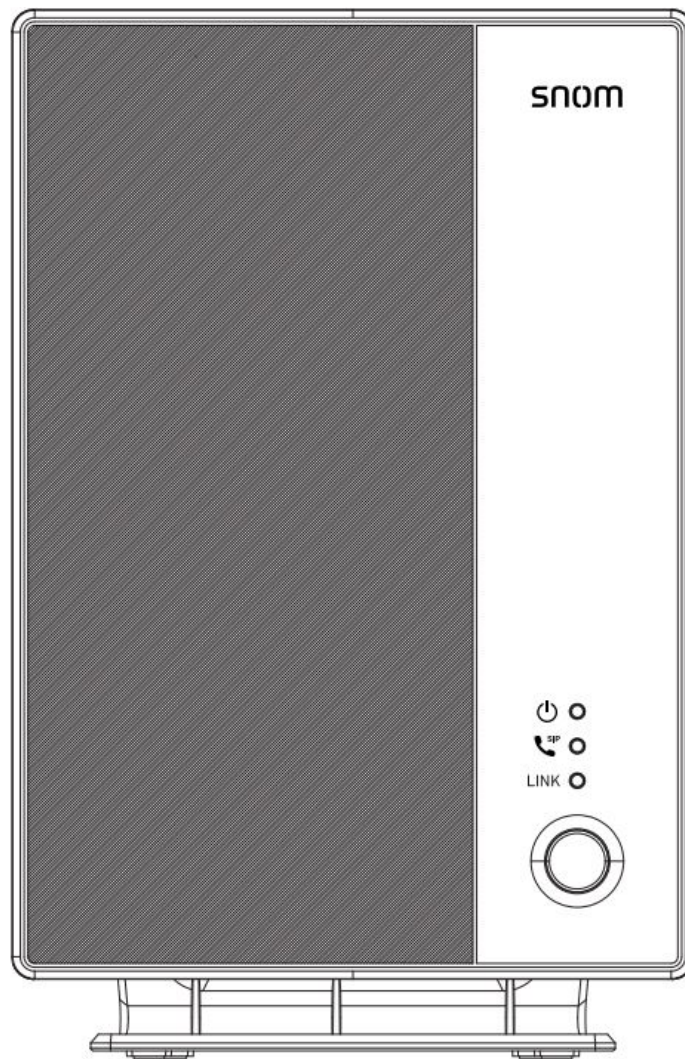
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**snom**

**snom M500 Multi-Cell SIP DECT Base Station**



## Important Safety Information

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. This product should only be connected to the host equipment and never directly to the network such as Public Switch Telephone Network (PSTN) or Plain Old Telephone Services (POTS).
3. Read and understand all instructions.
4. Follow all warnings and instructions marked on the product.
5. Unplug this product from the wall outlet before cleaning. Do not use liquid or aerosol cleaners. Use a damp cloth for cleaning.
6. 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.
7. Do not place this product on an unstable table, shelf, stand or other unstable surfaces.
8. Slots and openings in the back or bottom of the base station 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.
9. 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 supplied at the premises, consult your dealer or local power company.

10. Do not allow anything to rest on the power cord. Do not install this product where the cord may be walked on.
11. Never push objects of any kind into this product through the slots in the base station or handset because they may touch dangerous voltage points or create a short circuit. Never spill liquid of any kind on the product.
12. 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 base station 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.
13. Do not overload wall outlets and extension cords.
14. Unplug this product from the wall outlet and refer servicing to an authorized service facility under the following conditions:
  1. When the power supply cord or plug is damaged or frayed.
  2. If liquid has been spilled onto the product.
  3. If the product has been exposed to rain or water.
  4. 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.
  5. If the product has been dropped and the telephone base and/or handset has been damaged.
  6. 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. Use only the power cord indicated in this manual.
20. For pluggable equipment, the socket-outlet shall be installed near the equipment and shall be easily accessible.
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 installation instructions in the User Manual.
22. **CAUTION:** Keep small metallic objects such as pins and staples away from the handset receiver.
23. **WARNING:** The product included (ITE) in this manual is to be connected only to PoE networks without routing to the outside plant.

## Compliance

## FCC part 15

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.

This equipment has been tested and found to comply with the limits for a Class A digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference when the equipment is operated in a commercial environment. This equipment generates, uses, and can radiate radio frequency energy and, if not installed and used in accordance with the instruction manual, may cause harmful interference to radio communications. Operation of this equipment in a residential area is likely to cause harmful interference in which case the user will be required to correct the interference at the user's expense. Privacy of communications may not be ensured when using this phone.

**Warning:** 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.

**Caution:** To maintain the compliance with the FCC's/ISED's RF exposure guideline, place the base unit at least 20 cm from nearby persons.

## Industry Canada

This Class A digital apparatus complies with Canadian requirements:

CAN ICES-3 (A)/NMB-3(A). Cet appareil numérique de la classe A est conforme à la norme CAN ICES-3 (A)/NMB-3(A) du Canada.

This device contains licence-exempt transmitter(s)/receiver(s) that comply with Innovation, Science and Economic Development Canada's licence-exempt RSS(s).

Operation is subject to the following two conditions:

1. this device may not cause interference, and
2. this device must accept any interference, including interference that may cause undesired operation of the device.

Privacy of communications may not be ensured when using this telephone. The term "IC:" before the certification/registration number only signifies that the Industry Canada technical specifications were met.

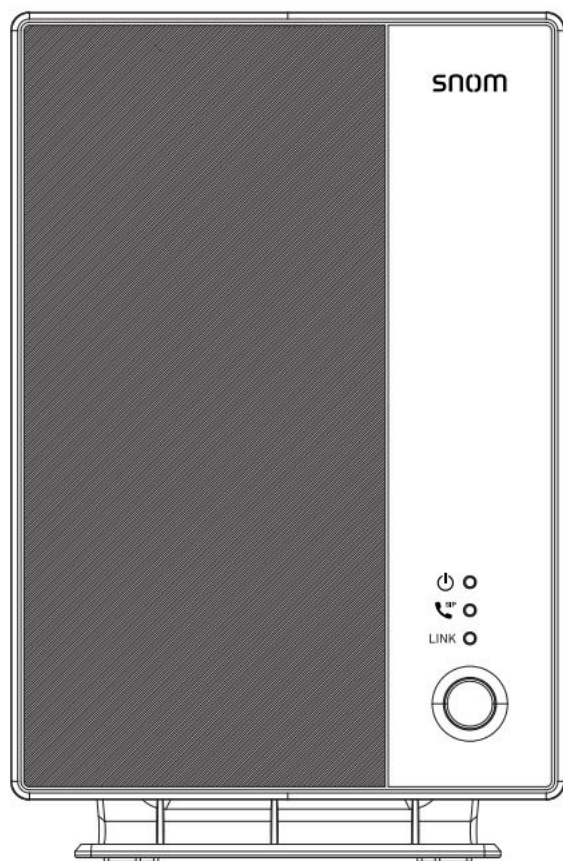
## About this Guide

This quick installation guide provides a reference for the external features of the base station and basic installation instructions.

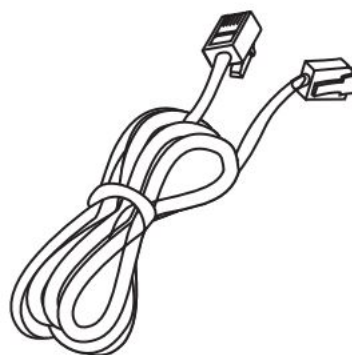
For customer service or product information, visit our website at

[www.snomamericas.com](http://www.snomamericas.com).

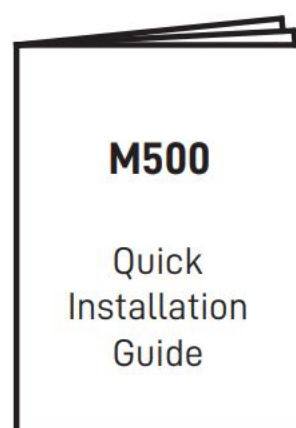
## Parts Checklist



Base Station



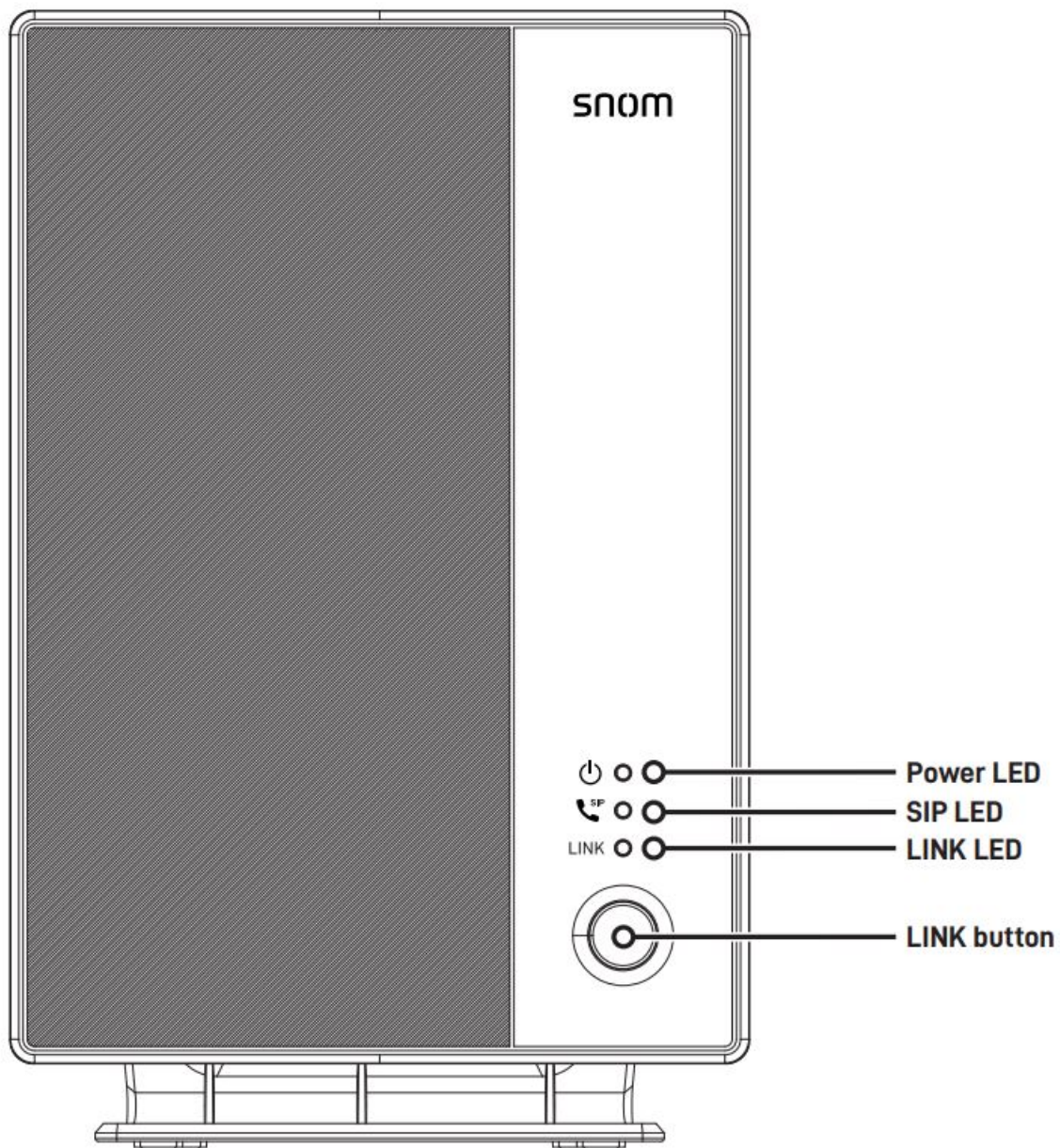
Ethernet cable



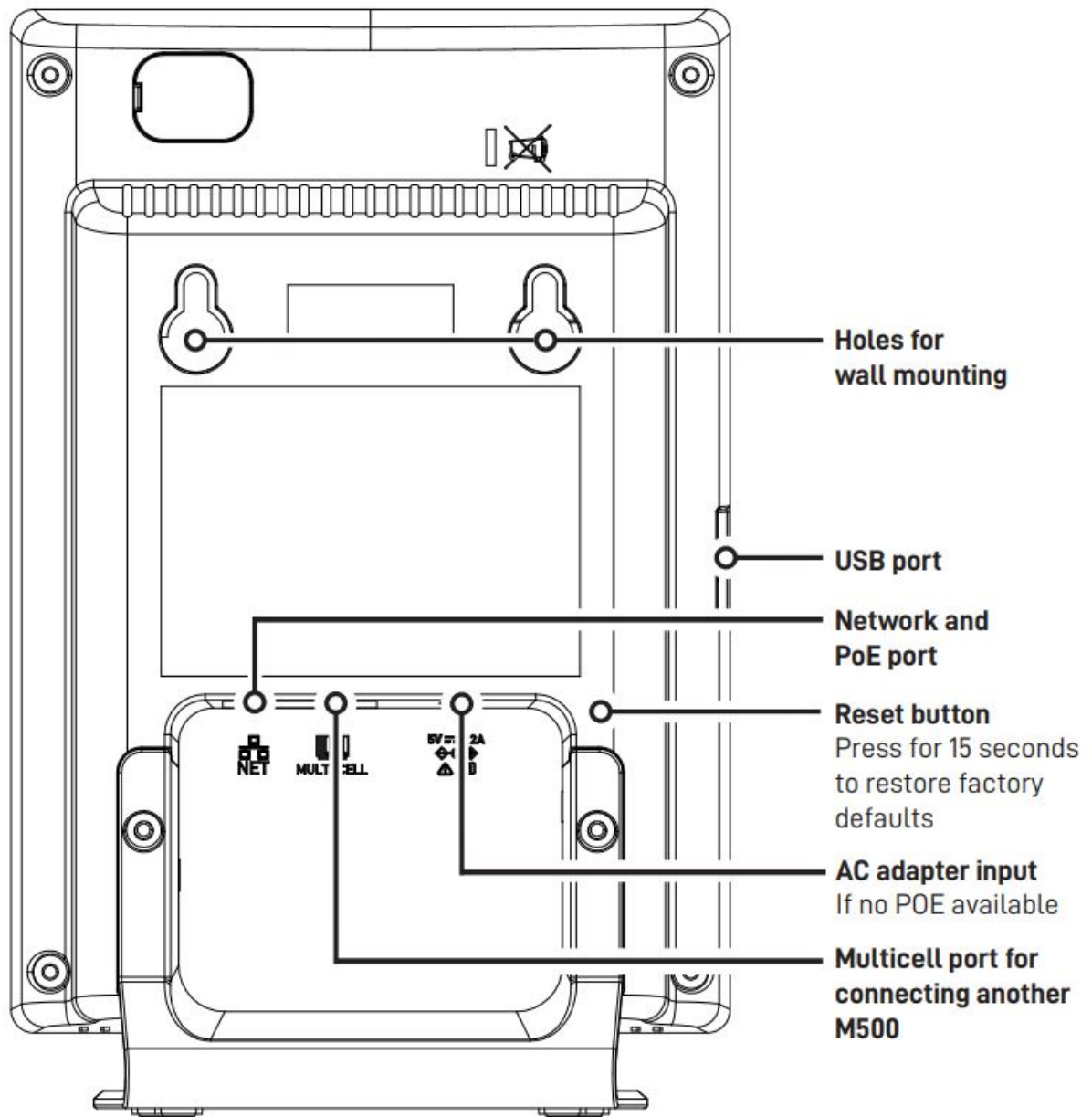
Your package contains the following items. Save your sales receipt and original packaging in the event warranty service is necessary.

#### **Base station external features – Front view**

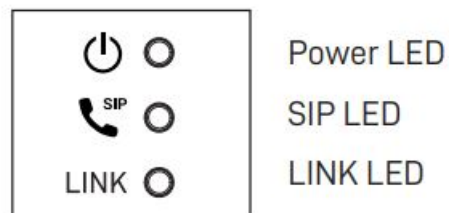




**Base station external features – Rear view**



#### Status Indicators on the Base Station



LED	Color	Pattern	Description
Power	Green	Steady	<ul style="list-style-type: none"> <li>Base station just powered ON and proceeding to IP retrieval</li> <li>Power has been On and IP is assigned to desksets/handsets</li> <li>ON for 5 seconds after the confirmation of system deregistration</li> </ul>
		OFF	<ul style="list-style-type: none"> <li>Base station is not powered up</li> </ul>
		Slow flash	<ul style="list-style-type: none"> <li>During deskset/handset registration, i.e. subscription mode</li> <li>Power has been On and DHCP has been enabled, but no IP is assigned to the base station</li> <li>Toggles with the SIP LED for negotiating or checking with provisioning server</li> </ul>
		Quick flash	<ul style="list-style-type: none"> <li>Ready to deregister deskset/handset</li> <li>Toggles with SIP LED for base station/deskset/handset firmware upgrade or configuration import in progress</li> </ul>
SIP	Green	Steady	<ul style="list-style-type: none"> <li>All enabled SIP accounts are registered;</li> <li>ON for 5 seconds after the confirmation of system deregistration</li> </ul>
		Slow Flash	<ul style="list-style-type: none"> <li>During deskset/handset registration, i.e. subscription mode</li> <li>Toggles with the power LED for negotiating or checking with provisioning server</li> </ul>
		Quick Flash	<ul style="list-style-type: none"> <li>Ready to deregister deskset/handset</li> <li>Toggles with the power LED for base station/deskset/ handset firmware upgrade or configuration import in progress</li> </ul>
	Red	Slow Flash	<ul style="list-style-type: none"> <li>At least 1 enabled SIP account is deregistered</li> </ul>

#### Status Indicators on the Base Station



LED	Color	Pattern	Description
LINK	Green	Steady	<ul style="list-style-type: none"> <li>This base station is connected with deskset(s)/handset(s) and registered base stations (if any)</li> <li>ON for 5 seconds after the confirmation of system deregistration</li> </ul>
		Slow Flash	<ul style="list-style-type: none"> <li>During deskset/handset registration, i.e. subscription mode;</li> <li>This base station is connected with registered base station(s) (if any), but not connected with any registered deskset/handset at the moment</li> </ul>
		Quick Flash	<ul style="list-style-type: none"> <li>Ready to deregister deskset/handset</li> </ul>
	Red	Steady	<ul style="list-style-type: none"> <li>This base station is registered and connected with other base stations, but the M500 system has no record of deskset/handset</li> </ul>
		Slow Flash	<ul style="list-style-type: none"> <li>This base station cannot be connected with other registered base station(s) in the same network, whether or not the base station is connected to deskset(s)/handset(s)</li> </ul>
		Quick Flash	<ul style="list-style-type: none"> <li>This base station cannot find the master base unit; or the master base unit is down</li> </ul>
	Orange	Slow Flash	<ul style="list-style-type: none"> <li>This Base station is a standalone base unit that is not registered with any Deskset/handset or base station</li> </ul>

## Base Station Installation

This section assumes that your network infrastructure is established and that your IP PBX phone service has been ordered and configured for your location. You can power the base station using Power over Ethernet (PoE) from your network or using a power adapter (sold separately). The base station requires PoE Class 3. If you are not using PoE, install the base station near a power outlet not controlled by a wall switch. The base station can be placed on a flat surface or mounted on a wall in a vertical or horizontal orientation.

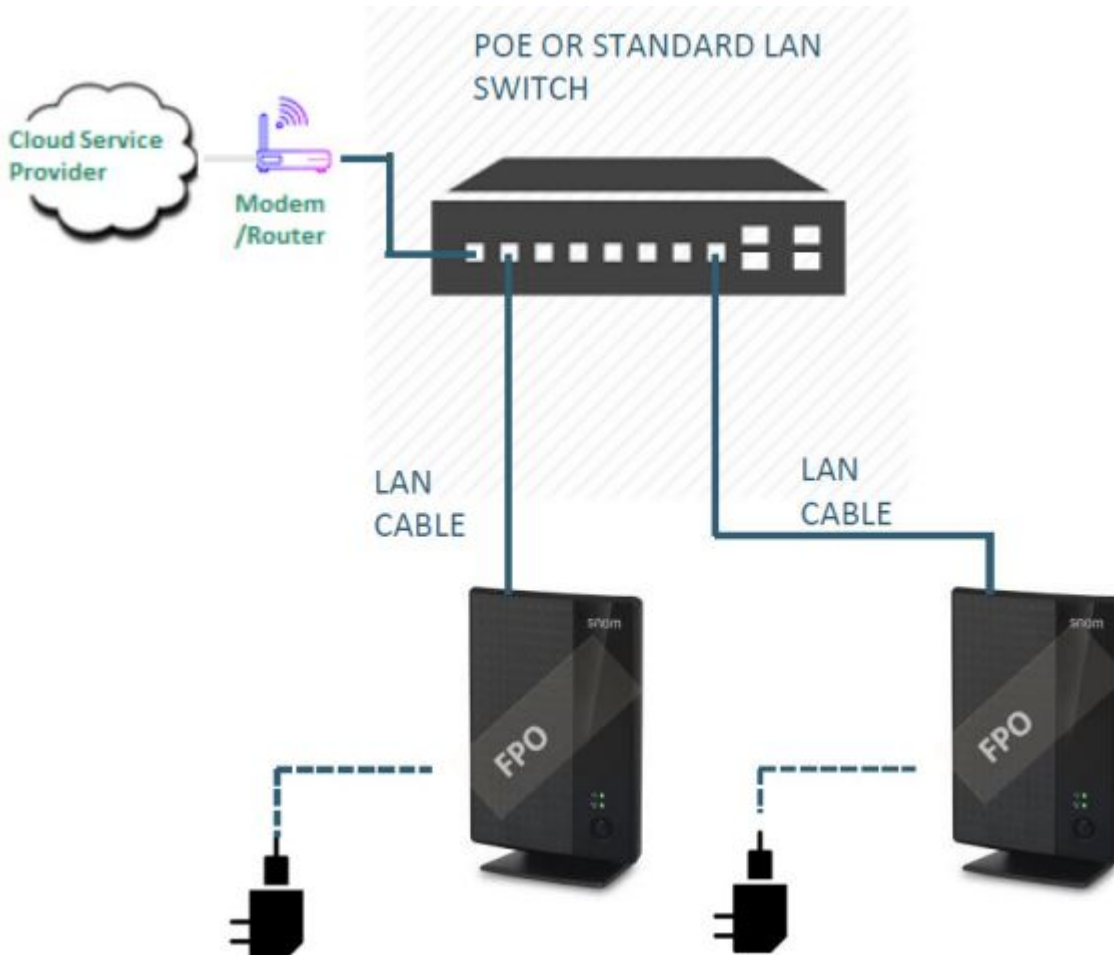
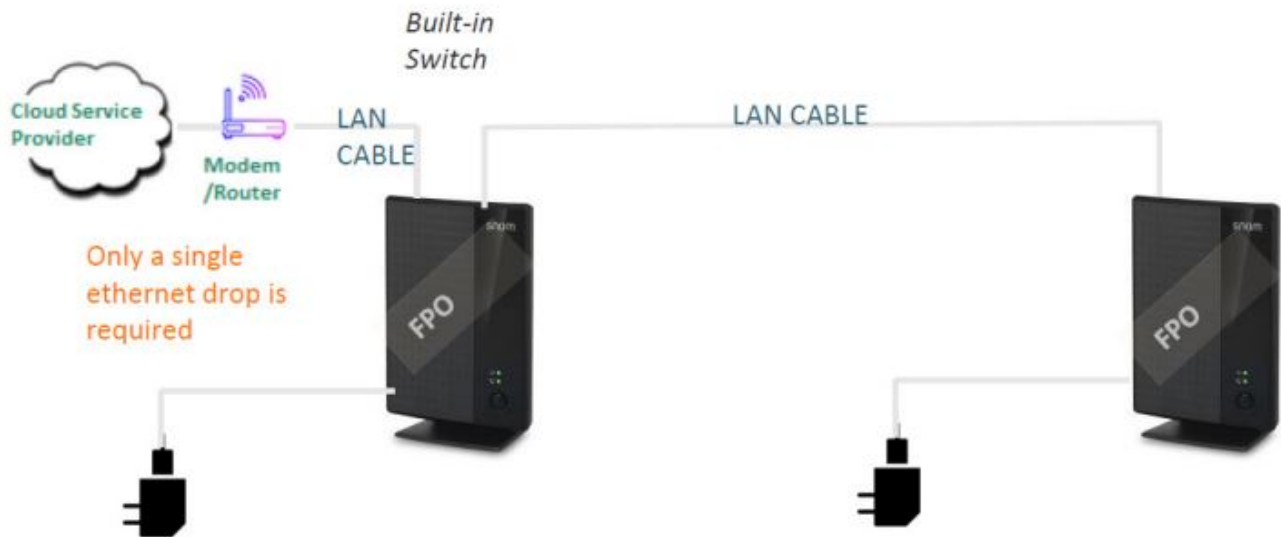
Avoid placing the base station too close to:

- Communication devices such as television sets, DVD players, or other cordless telephones
- Excessive heat sources
- Noise sources such as a window with traffic outside, motors, microwave ovens, refrigerators, or fluorescent lighting
- Excessive dust sources such as a workshop or garage
- Excessive moisture
- Extremely low temperature
- Mechanical vibration or shock such as on top of a washing machine or workbench

**Note:** For cordless accessory installation, see the M58 SIP DECT Handset Quick Installation Guide.

### A facility without network infrastructure

## Facility without network infrastructure



### Connecting the base station

The base station can be operated with Power over Ethernet (PoE) provided via the network cable or, if PoE is not available in your network, with the separately available 5V DC power adapter.

Plug the Ethernet (network) cable into the RJ45 connector labeled “NET”, and plug the other end into the network side to establish a data link. If PoE is not available, insert the plug of the power supply into the connector labeled “5V DC” and hook up the plug to the wall outlet.

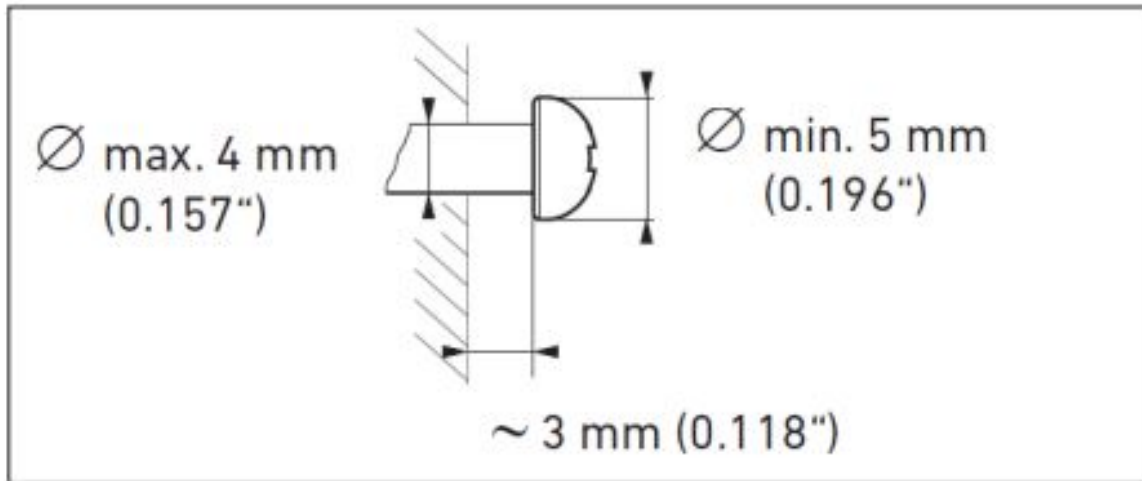
The second RJ45 connector, labeled “MULTI-CELL”, is for daisy-chaining further M500 base stations without the need for a second Ethernet connection line. Up to six M500 base stations can be connected for single-cell or

multi-cell operation.

### IMPORTANT INFORMATION

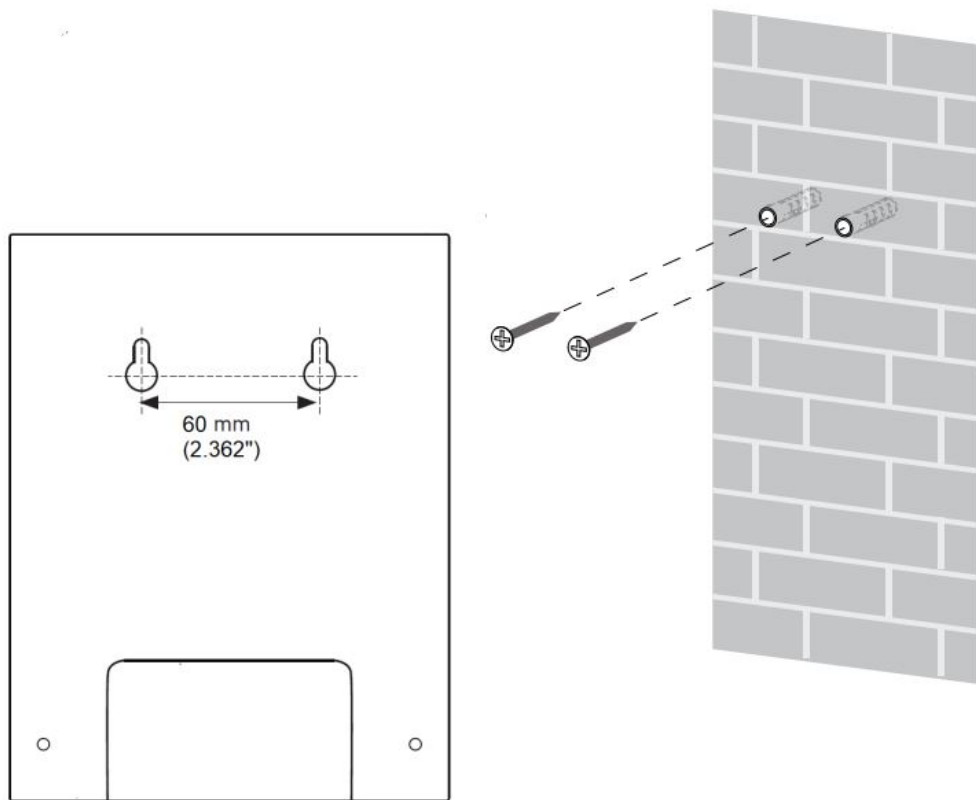
1. Use only a compatible Snom power adapter (model number NBS12E050200UV). To order a replacement power adapter, visit our website at [www.snomamericas.com](http://www.snomamericas.com).
2. The power adapter is intended to be correctly oriented in a vertical or floor mount position. The prongs are not designed to hold the plug in place if it is plugged into a ceiling, under-the-table or cabinet outlet.

### Mounting the base station on a wall



1. Unscrew the foot stand, and remove it from the base station.
2. Install two mounting screws on the wall. Choose screws with heads larger than 5 mm (3/16 inch) in diameter (1 cm / 3/8 inch diameter maximum). The screw centers should be 60 cm (2 3/8 inches) apart vertically or horizontally. Tighten screws until only 3 mm (1/8 inch) of the screws are exposed.
3. Connect the Ethernet cable and power as described in "Base Station Installation" on page 14-15.

Place the base station over the mounting screws.



## Maintenance

### Taking care of your product

- Your base station contains sophisticated electronic parts, so you must treat it with care.
- Avoid rough treatment.
- Save the original packing materials to protect your product if you ever need to ship it.

### Avoid water

You can damage your base station if it gets wet. Do not use cordless accessories in the rain, or handle them with wet hands. Do not install the base station 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 electric appliances during storms.

### Cleaning your product


- Your product 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 a 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 FROM THE WALL, then pull the unit out by the unplugged cord.

Technical Specifications

RF frequency band	1921.536–1928.448 MHz
Channels	5
Operating temperature	32–104 °F (0–40 °C)
Power requirements	Power over Ethernet (PoE): IEEE 802.3af supported, class 3 If PoE not available, power adapter (sold separately): NBS12E050200UV Input: 100-240V AC 50/60Hz  Output: 5.0V DC @ 2A
Connectors	Two 10/100 Mbps Ethernet RJ-45 ports One USB 2.0 type A

Documents / Resources

	<p><a href="#">snom M500 Multi-Cell SIP DECT Base Station</a> [pdf] Installation Guide 80-S105-00, 80S10500, EW780-S105-00, EW780S10500, M500 Multi-Cell SIP DECT Base Station, Multi-Cell SIP DECT Base Station</p>
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