

# How to use the base station power module

What are the components of a base station?

**Power Supply:** The power source provides the electrical energy to base station elements. It often features auxiliary power supply mechanisms that guarantee operation in case of lost or interrupted electricity, during blackouts. **Baseband Processor:** The baseband processor is responsible for the processing of the digital signals.

What is a power supply module?

A Power Supply Module is used in a base station/repeater with a Power Amplifier Module(e.g. rated at 100 W output power). The model generates the +5.1 V,+14.2 V,and +28.6 V operating voltages for the base station/repeater modules. These modules have power factor correction and include a connection for battery backup.

How does a base station work?

It usually connects the device to other networks or devices through a dedicated high bandwidth wire of fiber optic connection. Base stations typically have a transceiver,capable of sending and receiving wireless signals; Otherwise if they only send the trailer it will be considered a transmitter or broadcast point only.

How do I pick up a base station/repeater?

DO NOT pick up the base station/ repeater by holding the Preselector (if so equipped). Use the handles on the front of the base station/repeater, or the Power Supply and Power Amplifier casings when picking up the base station/repeater. Remove the station front bezel from its chassis locking clip by carefully pulling it forward.

What are the properties of a base station?

Here are some essential properties: **Capacity:**Capacity of a base station is its capability to handle a given number of simultaneous connections or users. **Coverage Area:** The coverage area is a base station is that geographical area within which mobile devices can maintain a stable connection with the base station.

Why do we need a base station?

**Technological advancements:** The New technologies result in evolved base stations that support upgrades and enhancements such as 4G,5G and beyond,its providing faster speeds with better bandwidth. **Emergency services:** They provide access to emergency services,so that in case of emergency,people can call through their mobile phones.

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