



## Base station room distribution box principle

What is a primary distribution box? However, when it comes to their meanings and functions, some might be quite unclear. The primary distribution box refers to the main distribution box, typically located in the distribution room. These boxes feature bottom entry and exit cables, front-opening doors, and main busbars connected with copper strips for optimal contact. How does a distribution box work? A distribution box plays a crucial role in managing the flow of electricity in a building. Here's how it works: Electricity enters the distribution box from the main power supply. Once inside, the power is divided into separate circuits for different areas of the building, such as the kitchen, living room, or office.

**What is a tertiary distribution box?** Tertiary Distribution Box: The system includes a main distribution box, sub-distribution boxes, and switch boxes connected to electrical equipment, forming a three-tiered distribution. Employs a two-tiered protection approach with residual current devices in both the final switch boxes and the preceding sub-distribution or main distribution boxes.

**Where should a distribution box be installed?** The main distribution box should be as close as possible to the transformer or external power source to facilitate the introduction of power. The distribution box should be installed as much as possible in the central area where the electrical equipment or load is relatively concentrated, to ensure that the three-phase load is balanced.

**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 are the characteristics of a distribution box?** The distribution box is an electrical equipment with the characteristics of small size, easy installation, special technical performance, fixed position, unique configuration function, no site restrictions, widespread application, stable and reliable operation, high space utilization rate, small land occupation, and environmental protection effect.

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**Application Note: Distributed Base Stations** Another variation on the Distributed BTS concept is the capacity transfer system, in which a single BTS with a digital connection to the BSC (Base Station Controller) is connected to additional

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