

## SolarInnovate Energy Solutions

# Function of the distribution box of the communication base station



## Overview

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Hello everyone, my name is base station. Whether you admit it or not, my existence is as important as water and electricity. The electromagnetic waves I send out are wrapped around you like air. The meaning of my existence is to spread the signal to every corner quickly and steadily.

Most people think that the tall iron tower is all I have, imagining that the raging radiation from the top of the tower is like a torrential flood pouring out, which makes people.

Most base stations do not need special towers, and can be built directly on the existing roof. Generally, you can see a row of plate-shaped objects standing upright and.

If we go straight down along the feeder line connected to the antenna, we will soon see the silver box hidden behind the antenna, which is the radio frequency (RF) unit. Figure11: RF unit RRU (Remote Radio Unit) means “remote radio frequency unit”. Many people in China like to call it RRU, but there are also many companies like to call it.

We left the RF unit and followed the power cord all the way down to the most critical part—the machine room. Figure14: Machine room The function of the machine room is to shelter the core equipment inside, that is, the baseband unit, to provide power supply. It works just as the human head protects the delicate but vital brain by a.

Telecommunications Networks: In telecommunications networks, fiber distribution box is used for the termination and connection of fiber optic cables connecting base stations, microwave links, and other communication nodes. What is a distributed base station architecture?

In a distributed base station architecture, the traditional macro station equipment have two distinct units based on their functions: the BBU and the RRU. The BBU centralizes the “baseband,” “transmission,” “main control,” “clock,” and other functions of the base station.

What is a base station in a telecommunications network?

A base station is a critical component in a telecommunications network. A fixed transceiver that acts as the central communication hub for one or more wireless mobile client devices. In the context of cellular networks, it facilitates wireless communication between mobile devices and the core network.

What is a radio base station (RBS)?

A Radio Base Station (RBS), also known as a base transceiver station (BTS), is a key component of a cellular network infrastructure. It serves as the interface between mobile devices and the core network, enabling communication over wireless networks. In this detailed explanation, I will cover various aspects of RBS.

How does a base station work?

**Backhaul Connection:** Base stations are connected to the core network via backhaul links, which can be wired or wireless. The backhaul provides the necessary bandwidth and reliability for transferring large amounts of data between the base station and the network core.

Why are base stations important?

Base stations are the backbone of modern telecommunications networks, providing the essential infrastructure for wireless communication. They enable mobile devices to connect to the network, manage traffic efficiently, and ensure robust and reliable connectivity across wide areas.

What is a fiber distribution box?

**Indoor Networks:** In indoor networks, such as those found in office buildings or hotels, fiber distribution box is used for connecting fiber optic cables between different floors or buildings. It provides convenient access points for adding or maintaining fiber optic cables and ensuring reliable network connectivity throughout the building.

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