

## SolarInnovate Energy Solutions

# Communication 4g base station



## Overview

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The basic principles of 3G, 4G and 5G base stations are similar, but there are some differences in specific designs. 4G base station equipment is mainly composed of three parts: baseband processing unit (BBU), remote radio frequency processing unit (RRU) and antenna system. What is a 4G base station?

The base station sits at the heart of the network platform. Traditional 4G LTE base stations contain one, two or possibly even four transmitters and usually operate on core band frequencies of up to 2.5 GHz, sometimes even 3.5 GHz and 5 GHz.

What is a 5G base station?

Base station is a stationary trans-receiver that serves as the primary hub for connectivity of wireless device communication. The architecture of the 5G network must enable sophisticated applications, which means the base stations design required must also be specialist.

What is the difference between 3G 4G & 5G base station?

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What is 4G LTE base station (ENodeB)?

This article will take 4G LTE base station (eNodeB) for example to elaborate. 1. Antenna System Generally, a base station contains several antennas mounted on its top, mainly responsible for the transmission and reception of signals, connected to the RRU. 2. RRU ( Remote Radio Unit).

What is a base station in telecommunications?

In telecommunications, a base station is a fixed transceiver that is the main

communication point for one or more wireless mobile client devices. A base station serves as a central connection point for a wireless device to communicate.

How big is a 4G base station PCB?

The PCB used in 4G base stations is mainly divided into antenna system RRU and BBU. According to one BBU towing three pairs of antennas and three pairs of RRUs, the total area of the antenna system PCB is about 0.684 square meters, and the total area of the antenna system PCB is about 0.3 meters. The total area is 0.984 square meters.

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