

Kongres Container

5g micro base station site



Overview

What is a 5G NR base station?

It facilitates communication between user equipment (UE), such as smartphones and IoT devices, and the core network. Unlike LTE base stations (eNodeBs), 5G NR base stations are designed to handle the enhanced requirements of 5G, such as high throughput, network slicing, and support for multiple frequency bands.

What is a 5G macro cell?

Macro cells are large base stations that provide broad coverage, typically several kilometers in radius. These are deployed on tall towers, rooftops, or other high structures and are essential for providing the backbone coverage of a 5G network. Key Features: Macro cells form the coverage layer of the 5G network.

What are the components of a 5G base station?

Baseband Unit (BBU): Handles baseband signal processing. Remote Radio Unit (RRU): Converts signals to radio frequencies for transmission. Active Antenna Unit (AAU): Integrates RRU and antenna for 5G-era efficiency. 2. Power Supply System This acts as the “blood supply” of the base station, ensuring uninterrupted power. It includes:.

What is a microcell base station?

As the name implies, microcell towers are small and can be added to infrastructure, such as lamp posts. An advantage of a microcell base station is its energy efficiency. Small cells are the backbone of 5G and complement macrocells.

What are mmWave NR base stations?

Key Features: mmWave small cells deliver the ultra-fast speeds promised by 5G in urban hotspots. They are deployed on lamp posts, traffic lights, and

building walls in areas with high user density and line-of-sight accessibility. Each type of 5G NR base station plays a distinct and crucial role in building a reliable, high-performance 5G network.

What is a 5G femtocell?

There are three different types of small cells. A 5G femtocell, also called a home base station, is around the size of a paperback book and commonly used inside homes and offices. There are no line-of-site restrictions with a femtocell network, but it also supports a limited number of users and ranges just over 30 feet.

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