

Kongres Container

5g base station communication mainly consists of three types of architectures



Overview

What is a 5G base station?

Interesting Black Technology of 5G Radio Frequency 5G base station is the core equipment of 5G network, which provides wireless coverage and realizes wireless signal transmission between wired communication network and wireless terminal. The architecture and shape of base stations directly affect how 5G networks are deployed.

What is 5G network architecture?

Below is a detailed technical explanation of the 5G network architecture: 1. Three-Tier Network Architecture 5G networks can be divided into three main components: User Equipment (UE): Devices like smartphones, IoT devices, and other devices that connect to the 5G network.

What are the different types of 5G NR base stations?

This article describes the different classes or types of 5G NR Base Stations (BS), including BS Type 1-C, BS Type 1-H, BS Type 1-O, and BS Type 2-O. 5G NR (New Radio) is the latest wireless cellular standard, succeeding LTE/LTE-A. It adheres to 3GPP specifications from Release 15 onwards. In 5G NR, the Base Station (BS) is referred to as a gNB.

What is a 5G core network?

The 5G core network, also known as the Next-Generation Core (NGC), plays a crucial role in managing and controlling network functions. It is designed to be more flexible, scalable, and capable of supporting a diverse range of services.

What is a 5G baseband unit?

The 5G baseband unit is responsible for NR baseband protocol processing, including the entire user plane (UP) and control plane (CP) protocol processing functions, and provides the backhaul interface (NG interface) with the core network and the interconnection interface between base stations (Xn interface)

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What is a radio access network (ran) in 5G?

2. Radio Access Network (RAN) The RAN is where the wireless connection between the UE and the network infrastructure is established. In 5G, the RAN is evolving significantly: New Radio (NR): 5G introduces a new radio interface called NR.

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