

ContainerPower Energy Solutions

Communication 5g base station parameters



Overview

What is packet communication in 5G?

Packet communication is central to the 5G new radio (NR) interface. This topic presents the communication flow between the 5G base station (gNB) and user equipment (UE) nodes, explaining the uplink (UL) and downlink (DL) transmission. System-level simulation involves the transmission of various packet types in both UL and DL directions.

Can a base station be used for 5G?

Conferences > 2018 IEEE International RF an. The fifth-generation (5G) mobile communication system will require the multi-beam base station. By taking into account millimeter wave use, any antenna types such as an array, reflector and dielectric lens antennas are possible for a base station application.

How many frequency bands are allocated to 5G base stations?

To test the 5G base stations worldwide 32 frequency bands within the FR1 are allocated. However to ensure electromagnetic compatibility regulatory acts in the radio frequency allocation in a particular country should be taken into account along with the impact of already existing radio communication systems.

Can a multi-beam base station be used in a 5G mobile communication system?

Abstract: The fifth-generation (5G) mobile communication system will require the multi-beam base station. By taking into account millimeter wave use, any antenna types such as an array, reflector and dielectric lens antennas are possible for a base station application.

Can a 5G base station be made on a fast prototyping tool?

A prototype of 5G base station can be made on the basis of various modules and tools for fast prototyping. Base station types 1-O and 2-O cannot be

implemented on fast prototyping tools due to their design features.

How to select a USRP block for a 5G mobile communication system?

The main parameters used to select the USRP block for prototyping the 5G mobile communication system are the ability to work in the selected frequency range, bandwidth, order of latency values and the number of supported devices. Comparative characteristics of some NI devices are presented in Table 4.

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