

SolarInnovate Energy Solutions

Communication How to check 5g base station



Overview

How do you test a 5G base station receiver?

Testing 5G new radio (NR) base station receivers requires signal generation equipment capable of creating millimeter-wave (mmWave) signals at extremely high bandwidth and tested using over-the-air (OTA) test methods.

Why do base stations need a 5G conformance test?

Thanks to the much faster, more reliable, and near-instant connections that come with the 5G, we now see a variety of innovative and comprehensive mobile wireless communication applications every day. Base stations must now pass new conformance tests to ensure they deliver on their promises.

Does a 5G base station have a RF test port?

Many 5G base stations do not have an RF test port. For this reason, over-the-air (OTA) measurements must be made. Certain field spectrum analyzers offer a comprehensive suite of modulation quality measurements.

What is the Keysight 5G NR base station receiver test solution?

The Keysight 5G NR base station receiver test solution includes a vector signal generator, a frequency extender, and signal generation software. This synchronized multi-channel signal generation solution optimizes measurement integrity and minimizes measurement uncertainty.

What tests are performed during 5G measurements?

The following tests are generally performed during 5G measurements: Figure 1: Equipments available from Keysight Technologies for 5G measurements. References: Explore 5G measurements for User Equipment (UE) and Base Stations (BS), covering transmitter and receiver test scenarios, conformance, and network stability.

Can a 5G base station be installed at ground level?

Many 5G base stations are being deployed at existing LTE sites. Each tower has a loading factor that defines the maximum weight of the radios and antennas that can be mounted. Due to legacy hardware on the tower, the radio may be required to be installed at ground level and only the antenna is tower mounted.

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