

ContainerPower Energy Solutions

Communications come to install 5g base stations at home

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Overview

What is 5G network installation?

5G network installation includes the setup, deployment, and verification of new radios, antennas, fiber links, and power sources. The next-generation of radio access networks (RAN) also brings wholesale changes to fronthaul, mid-haul, and backhaul fiber installation to support split BBU architecture and network function virtualization (NFV).

What is a 5G base station?

A 5G network base-station connects other wireless devices to a central hub. A look at 5G base-station architecture includes various equipment, such as a 5G base station power amplifier, which converts signals from RF antennas to BBU cabinets (baseband unit in wireless stations).

What is 5G installation & why is it important?

5G installation is driving advances and upgrades that span the entire wireless network ecosystem. The stringent test requirements and unique installation challenges for new 5G cell sites and RAN deployments can only be addressed through versatile, automated 5G test solutions.

How does 5G antenna installation work?

5G antenna installation tasks are transformed by millimeter wave transmission. Higher frequencies and shorter wavelengths result in smaller antenna form factors with high connection density. 5G antenna integrators at the top of the tower perform valuable antenna alignment tasks to ensure optimized coverage and service.

Will 4G base stations be upgraded to non-standalone 5G?

Upgrading 4G base stations by software to non-standalone (NSA) 5G will still require hardware changes. It will act as an interim, but it will still not satisfy the need for true 5G network architecture. The number of base stations

needed increases with each generation of mobile technology to support higher levels of data traffic.

How does 5G ran complexity affect cell site installation & commissioning?

New 5G test innovations reduce the impact of 5G RAN complexity on cell site installation and commissioning timelines. Baseband unit emulation can be used to simulate BBU transmission to the remote radio unit (RRU) prior to actual BBU installation and commissioning.

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