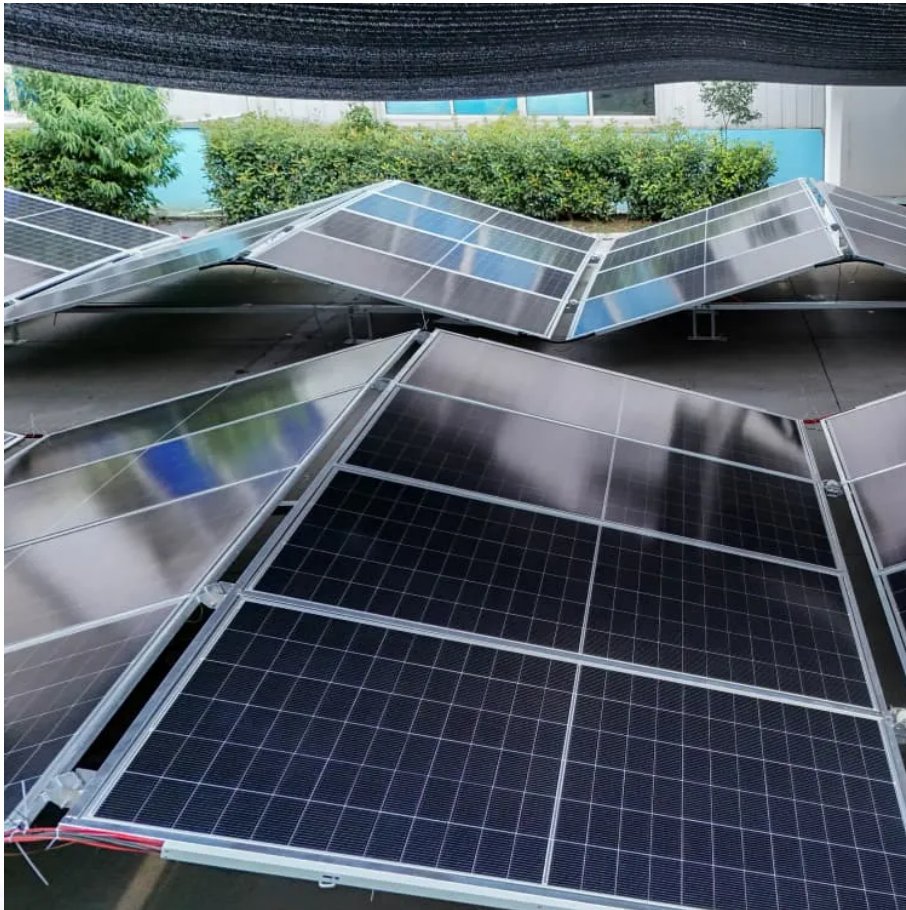


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Overview

How 5G technology is transforming connectivity?

5G technology is revolutionizing connectivity, and the manufacturers of 5G equipment are leading this transformation. From modems and base stations to RAN, antenna arrays, and core networks, these companies are providing cutting-edge solutions. Leading vendors are offering innovative products to enhance network speed, coverage, and efficiency.

What is a 5G radio access network?

The 5G Radio Access Network (RAN) is the interface between user devices and the 5G core network. It comprises base stations and small cells that manage radio communications, enabling ultra-fast data transfer and low-latency connections.

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 NR Network?

As defined in 3GPP TS 38.300, the 5G NR network consists of NG RAN (Next Generation Radio Access Network) and 5GC (5G Core Network). As shown, NG-RAN is composed of gNBs (i.e., 5G Base stations) and ng-eNBs (i.e., LTE base stations). The figure above depicts the overall architecture of a 5G NR system and its components.

What is a 5G base station?

5G base stations operate on various frequency bands, including sub-6 GHz and mmWave, to deliver ultra-low latency, high data throughput, and



enhanced capacity. They support massive MIMO (Multiple Input Multiple Output) technology, enabling improved coverage and simultaneous connections for a large number of devices.

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.



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