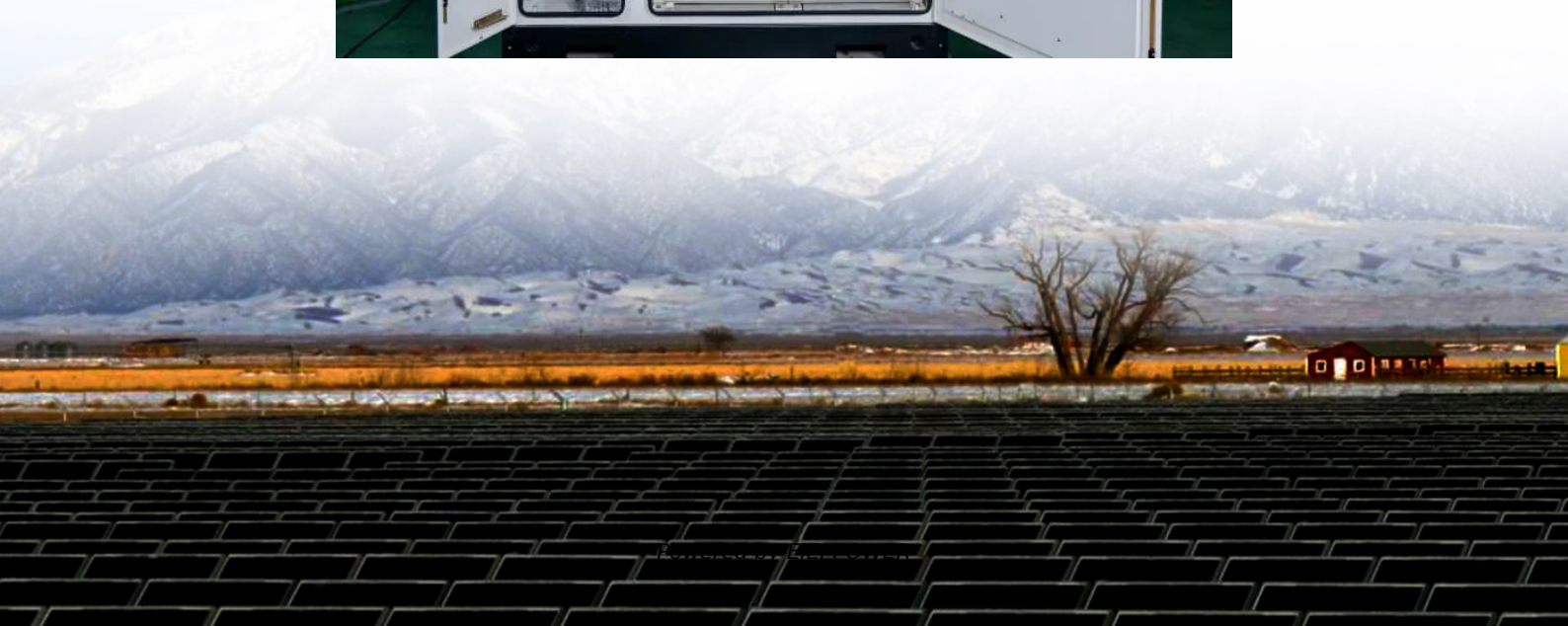


Caracas substation 5g network base station





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 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).

Will 5G base station antenna integrated Ota testing be a solution?

The 3GPP 5G new air interface protocol that was frozen in December 2017 has written OTA test specifications for all radio frequency performance indicators of 5G base stations, which means that 5G base station antenna integrated OTA testing will become the main solution for 5G base station hardware performance testing .

How a 5G signal is transmitted?

In the downlink direction, the baseband signal from the 5G baseband unit is received, and after being processed by the transmission link (TX) such as up-conversion, digital-to-analog conversion, radio frequency modulation, filtering, and signal amplification, it is transmitted through the switch and antenna unit.



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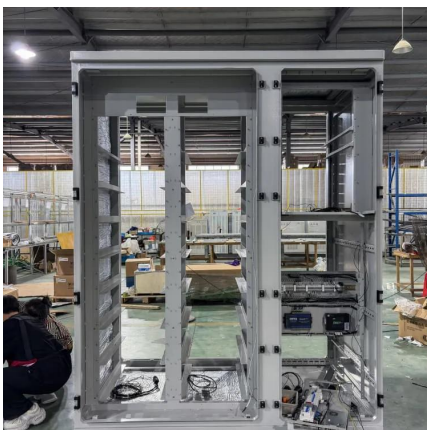
5G Antenna Distribution in Substations Considering ...

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Analysis of the Impact of Substation Switching Operations on 5G Base

A 500kV substation is used to calculate the impact size, and the minimum distance between the antenna of the 5G base station and the switch operation device is determined.

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