

Maseru Communications 5G base station for civil use





Overview

What is a 5G base station?

The goal of 5G networks is to achieve ultra-low latency (as low as 1 ms) and large-scale device connections (up to a million devices per square kilometer). Base station chips must support high-density small cell deployments, meet the massive device access demand, and emphasize high processing speeds and scheduling capability.

What is RRU power system?

By performing radio frequency signal processing, the RRU ensures that users receive high-quality communication. The base station power system serves as a continuous "blood supply pump station," responsible for AC/DC conversion, filtering, voltage stabilization, and backup power.

Does 5G BS use a lot of power?

A substantial quantity of power is used by 5G BS. Radio transmitters and processors are a couple of base station components whose power consumption can be optimized with the use of PSO. PSO can assist in lowering the consumption of energy while preserving network performance by modifying parameters like transmission power and duty cycles.

Are 5G base station chips compatible with 4G & 6G networks?

5G base station chips must be compatible with 4G, 5G, and future 6G networks, supporting multi-band and technology standard switching to ensure seamless connection between generations of networks.



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