

Main components of outdoor base station system





Overview

What is a base station power supply?

This acts as the “blood supply” of the base station, ensuring uninterrupted power. It includes: AC distribution box: Distributes mains power and offers surge protection. Switch-mode power supply: Converts and stabilizes power while managing DC output. Battery banks: Serve as backup power to keep systems running during outages. 3.

What are the components of a base station?

The base station will have one or more RF antennas installed to transmit and receive RF signals from other devices. The block diagram of a base station typically includes the following key components: Baseband Processor: The baseband processor too deals with different communication protocols and interfaces with mobile network infrastructure.

How do outdoor base stations work?

Outdoor base stations integrate all essential systems into a single Integrated Cabinet, designed to endure harsh conditions like direct sunlight, rain, and extreme temperatures. These units protect the equipment while ensuring efficient functionality. Towers are crucial for mounting antennas at high elevations, ensuring wide signal reach.

Why are outdoor base stations important during power outages?

It becomes a top priority during power outages to maintain data flow. Outdoor base stations integrate all essential systems into a single Integrated Cabinet, designed to endure harsh conditions like direct sunlight, rain, and extreme temperatures. These units protect the equipment while ensuring efficient functionality.



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base transceiver station components

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Application Note: Distributed Base Stations

All-outdoor, zero-footprint BTS, with all components located on the tower (essentially multiple boxes on the tower that travel via a combination of coax to the antennas and fiber/copper to ...

Outdoor components of the base station.

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