

# The synchronization method adopted by China Power s outdoor LTE base stations





## Overview

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What is LTE time synchronization?

LTE (Long-Term Evolution) is a standard for wireless broadband communication. Time synchronization is crucial in LTE networks to ensure efficient operation, especially when multiple base stations (eNodeBs) are involved.

What synchronization sources are used in LTE networks?

Synchronization Sources: LTE networks typically use Global Navigation Satellite Systems (GNSS) like GPS (Global Positioning System) as the primary source for time synchronization. Other alternatives include IEEE 1588 Precision Time Protocol (PTP) and Synchronous Ethernet.

Why is synchronization important in LTE networks?

Precise timing ensures that signals from different cells do not overlap or cause interference. Heterogeneous Networks: In scenarios where LTE networks coexist with other technologies like Wi-Fi or older cellular standards, advanced synchronization techniques and coordination mechanisms are essential.

Why is timing synchronization important in radio access networks?

After cell location and connectivity, delivery of precise timing is the most important element in radio access networks, as timing synchronization directly affects radio spectral efficiency and in turn throughput.



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At present, in this time synchronization mode, the time synchronization accuracy between base stations is in the order of 100 ns, and the time synchronization accuracy of base ...

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I. INTRODUCTION The growing demand for battery-free and ultra-low-power wireless communication has fueled the development of backscatter systems. These systems ...

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This allows the same base station not only to deliver the new LTE services, but also continue to provide coverage for the existing 3G and sometimes even legacy 2G devices ...



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### The synchronization method adopted by China Power s outdoor base stations

CN1279867A The invention relates to a method of synchronizing base stations and a cellular radio system comprising at least one base station (204, 206) and a plurality of terminals (214, ...

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### Lte time synchronization

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### Research on Improvement of Data ...

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## Timing & Synchronization technology adopted base station ...

The Furuno GPS frequency generator has been used as a standard mobile base station clock for 3rd, 3.5, and 3.9 (LTE) generation technologies. Overseas, the Furuno GPS timing module is ...

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## A time synchronization method of power grid based on TD -- LTE ...

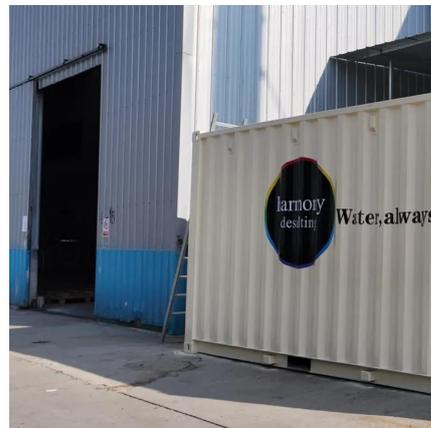
In [15], a time synchronization method based on TD-LTE frame synchronization was studied. The authors in [5] and [16] considered a special short training sequence to implement ...

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## A Closed Concept for Synchronization and Cell Search in ...

A. Synchronization signals dedicated synchronization channel (SCH) is specified in LTE [5] for transmitting two synchronization signals, the cellular system, it needs to establish ...

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## Method and equipment for synchronization between base stations

A technology between base stations and equipment, applied in the directions of synchronization devices, electrical components, wireless communication, etc., can solve the problems of low ...

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### [Timing & Synchronization technology ...](#)

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