

Introduction to container LTE base station





Overview

How does lteenb work?

LTEENB allows to build a real 4G LTE / 5G NR base station (called an eNodeB (4G) or gNodeB (5G)) using a standard PC and a low cost software radio frontend. All the physical layer and protocol layer processing is done in real time inside the PC, so no dedicated hardware is necessary. NB-IoT and Cat-M1 devices are also supported.

What is a base station in a 5G network?

Base stations are the backbone of wireless networks, facilitating communication between mobile devices and the network infrastructure. In LTE (Long Term Evolution) networks, these base stations are known as eNodeBs (evolved Node Bs), while in 5G networks, they are referred to as gNodeBs (next-generation Node Bs).

What is LTE positioning protocol annex & lppa?

Two protocols are used for the overall information exchange: the LTE Positioning Protocol (LPP) and the LTE Positioning Protocol Annex (LPPa) , . The latter one is used for the communication between the Location Server and the eNode B, the LTE base station.

How many positioning methods are there in LTE?

As Table 3 shows, there are in total four positioning methods in LTE, that are based on mobile radio signals: OTDOA, Enhanced Cell ID, UTDOA and RF pattern matching. The two later one are currently being standardized by 3GPP and will become part of 3GPP Release 11. These will be not further discussed in this document.



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Building Your Own 4G LTE Base Station

Mar 3, 2024 · Posted in Cellphone Hacks, Radio Hacks Tagged 4g, base station, GSM base station, LTE, srsRAN

Understanding the role of base stations (gNB vs eNB) in 5G and LTE

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LTE Release 9 Technology Introduction White paper

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Introduction to LTE

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Annex: Base-Station Site Solutions , part of Introduction to ...

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