

Identification of LTE base station communication system equipment





Overview

What are the basic parts of an LTE base station?

The basic parts of an LTE base station include the baseband part, which handles data processing and signaling and decides the capacity of the system, and the radio part, which converts digital data into RF signals, filters, and amplifies the RF signal, and decides the coverage of the system.

What are the functions of LTE network equipment?

LTE Network Equipment includes: the baseband part, which handles data processing and signaling and decides the capacity of the system, the radio part, which interconverts digital data and RF signal, filters and amplifies the RF signal, and decides the coverage of the system, and the antenna, which transmits and receives RF signal and decides the 'Shape' of the coverage. The baseband part and radio part are the essential parts of the LTE eNodeB.

What are the components of LTE network architecture?

The high-level network architecture of LTE is comprised of following three main components: The User Equipment (UE). The Evolved UMTS Terrestrial Radio Access Network (E-UTRAN). The Evolved Packet Core (EPC).

What are the different types of base stations?

In the LTE Network, there are several types of base stations. Distributed base stations have a remote radio unit (RRU) on the tower and use optical fiber to transfer data, allowing for flexible deployment. Another type is the integrated base station, which integrates the antenna with the RRU and uses technology like Massive MIMO. Lastly, there's the LTE Base Station - eNodeB, which includes a Building Baseband Unit.



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LTE Network Architecture

The E-UTRAN (The access network) The architecture of evolved UMTS Terrestrial Radio Access Network (E-UTRAN) has been illustrated below. The E-UTRAN handles the radio ...



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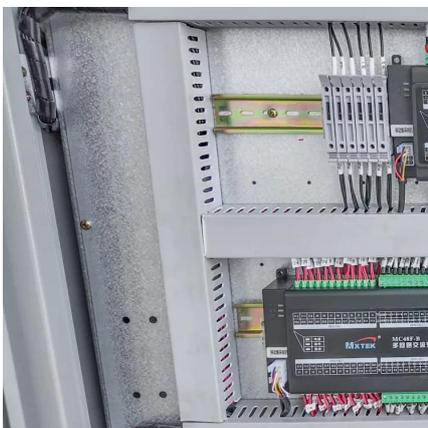
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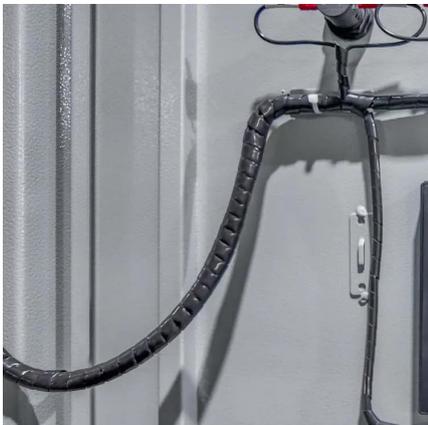


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LTE Network Architecture

The User EquipmentThe E-UTRANThe Evolved Packet CORE2G/3G Versus LteThe internal architecture of the user equipment for LTE is identical to the one used by UMTS and GSM which is actually a Mobile Equipment (ME). The mobile equipment comprised of the following important modules: 1. Mobile Termination (MT): This handles all the communication functions. 2. Terminal Equipment (TE): This terminates the data streams. 3. See more on tutorialspoint docomo.ne.jp[PDF]



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