
Division of indoor and outdoor base stations

Where is a base station antenna located?

The base station antennas are usually placed on rooftops, in masts or on building walls.

Antennas are sometimes also installed in shopping malls, airports, offices, and other places with many mobile phone users. Indoor antennas are usually placed on walls or on ceilings. Each base station can only serve a limited number of mobile devices at a time.

How many mobile devices can a base station serve?

Each base station can only serve a limited number of mobile devices at a time. As the number of mobile devices in a community grows, more base stations are needed. For that reason, more antennas are needed in such crowded locations as shopping malls where there are many mobile phone users.

Can unauthorized people access a base station?

The antennas are installed in such a way that unauthorized people do not have access to the area where the limits may be exceeded. This holds true whether the base station is part of a 2G (GSM), a 3G, a 4G (LTE) or a 5G network.

How much exposure can a radio base station have?

On the ground, in houses, and other places where people reside, the exposure levels from radio base stations are normally below 1 percent of the limits. Only in the close vicinity of the antennas can the exposure limits sometimes be exceeded.

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Dynamic 3-Dimensional Deployment of Unmanned Aerial Vehicle Base Stations in Indoor-Outdoor-Hybrid Urban Scenarios. In: Yang, Z., Sun, G. (eds) Proceedings of the 2nd ...

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All mobile network vendors offer base stations based on Software Designed Radio (SDR) with various options for installing the base-station modules indoor and outdoors, just by ...

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