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Title: Communication micro base station safety distance

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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.

Do mobile phones need a base station?

Mobile phones and other mobile devices require a network of base stations in order to function. The base station antennas transmit and receive RF (radio frequency) signals, or radio waves, to and from mobile phones near the base station. Without these radio waves, mobile communications would not be possible.

What is the difference between a wide area and a medium range base station?

Wide area base stations are characterized by requirements derived from Macrocell scenarios with a BS to UE minimum distance along the ground equal to 35m. Medium range base stations are characterized by requirements derived from microcell scenarios with a BS to UE minimum distance along the ground equal to 5m.

Which SAR measurements are not applicable to flexi multiradio base station?

The frequency is in the range of 800 to 3000 MHz. For the reasons above, SAR measurements are not applicable to Flexi Multiradio Base Station. The compliance boundary is defined as the area around the antenna shown in the following Area around the antenna figure. The antenna is located at the origin. Distances from the antenna are shown.

So, in this paper a procedure will be proposed to calculate the safety distance that the human beings can exposure from macro-cell of mobile base station. An on field measurement has ...

Wireless mobile communication networks have become essential for human life. A great booming and huge investments are devoted to develop the services without ta

The thermal effects of radio frequency energy can exceed safety levels when a person is inside the established

compliance boundaries. Observe the compliance boundary, and make sure ...

The guidelines apply to mobile phones as well as base station sites and incorporate wide safety margins to protect against all established health effects of RF exposure.

In Table 1 are presented the minimum safe distances for GSM 900, GSM 1800 and 3G base stations, in terms of public and occupational exposure.

Medium range base stations are characterized by requirements derived from microcell scenarios with a BS to UE minimum distance along the ground equal to 5m. Local area base stations are ...

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Measurements made near typical cellular and PCS cell sites have shown that ground-level power densities are well below the ...

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High-bandwidth communication, supports star-shaped networking, and AES encryption for security protection. The LBA 3 achieves bidirectional ...

The intensity of the radio waves is drastically reduced as the distance increases from the base station antenna. On the ground, in houses, and other places where people reside, the ...

High-bandwidth communication, supports star-shaped networking, and AES encryption for security protection. The LBA 3 achieves bidirectional synchronous data transmission, ...

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