

What are the green base stations for highway wireless communication

This architecture allows signaling base stations to provide wide-area coverage, while data base stations provide deep coverage as needed, thereby enhancing cost and power efficiency in the network.

Currently, the base stations are provided with power amplifiers, air conditioners, lighting, cooling fan and other Control Zone Instruments (CZI). Some researchers have come up with the novel concept of fan-less base ...

The new spectrum is getting auctioned in both 3G and 4G frequency bands and operators are expected to come up with more base stations offering next generation wireless services to provide higher peak throughput and ...

Several techniques have been deployed to reduce the energy consumption of the base station in what is called a green base station. This paper presents an insight into these approaches and highlights key challenges and ...

When wireless base stations using a high-frequency band are densely deployed along roads or railroad tracks, if the number of cars and trains targeted by wireless terminals is sparse, there will be many ...

Many of the more advanced design concepts in today's base stations involve miniaturization, but this in turn raises issues related to power density. Lower power consumption is one way to address power density issues.

Saving power in base stations is therefore the primary focus in green wireless network development. This paper discusses green base stations in terms of system architecture, base station form, ...

The present-day tele-space is incomplete without the base stations as these constitute an important part of the modern-day scheme of wireless communications. They are referred to as cell towers or ...

As with most large-scale wireless communications networks, the construction of a Smart Highway system typically begins with implementation of a solid wireless network backbone design, often utilizing multiple ...

The GBS delivers the same output power as conventional base stations but in a more compact and lightweight form factor, reducing infrastructure costs, eliminating the need for additional hardware, and ...

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