Two-part system for communication base station power transfer

Overview

The BSS is composed of two parts: The BTS and the BSC communicate across the specified Abis interface, enabling operations between components that are made by different suppliers. The radio components of a BSS may consist of four to seven or nine cells. Base stations typically have a transceiver, capable of sending and. Since wireless power transfer methods need less energy from the sensor nodes, a brief investigation into the architectures and components necessary to implement low-power sensor nodes is also included in this study. Introduction Wireless systems are an empowering technology for spacecrafts. Communications infrastructure equipment employs a variety of power system components. Power factor corrected (PFC) AC/DC power supplies with load sharing and redundancy (N+1) at the front-end feed dense, high efficiency DC/DC modules and point-of-load converters on the back-end. A power efficient. Provided is a system comprising a base station and a terminal apparatus that communicate with each other by selectively using plural radio resources, which is capable of supplying a power to the terminal apparatus using a communication-unused radio resource between the base station and the terminal. taneous wireless information and power transfer (SWIPT) techniqu the adva nsfers power to multiple energy receivers (ERs), and senses a target the MIMO beamforming designs are optimized to improve the solved based on together etter underst ations are conducted to verify the effectiveness of our.

Two-part system for communication base station power transfer

Integrating Sensing, Communication, and Power Transfer: ...

ced technology namely integrated sensing, communication, and power transfer (ISCPT). In this . e station equipped with multiple antennas transmits messages to multiple information receivers (IRs), ...

Wireless power and information dual transfer system via magnetically

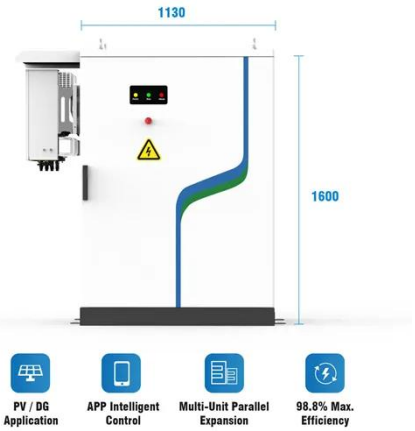
Here, Xiangning He and colleagues report a wireless power transfer system which efficiently multiplexes the information modulation and signal channel with the power conversion and ...

US20240339868A1

The base station generates a transmission signal including a dummy signal for wireless power transfer using a communication-unused radio resource that is not used for communication

Communications System Power Supply Designs

Unique solutions for DSL, VoIP and 3G Base Stations illustrate the wide range of power system architectures and the opportunities available for higher level integration.



Base Stations

Backhaul Connection: The backhaul connection links the base station to the core network in the mobile communication system. It provides for the interchange of data between the base station ...

Power Base Station

If an adjacent base-station transmission (UTRA or LTE) is detected under certain conditions, the maximum allowed Home base-station output power is reduced in

proportion to how weak the ...

Integrating Sensing, Communication, and Power Transfer: Multiuser

In this paper, a multi-user multiple-input multiple-output (MIMO) ISCPT system is considered, where a base station equipped with multiple antennas transmits messages to multiple ...

(PDF) Dispatching strategy of base station backup power supply

With the mass construction of 5G base stations, the backup batteries of base stations remain idle for most of the time. It is necessary to explore these massive 5G base station energy

Methods, Standards and Components for Wireless Communications ...

Since wireless power transfer methods need less energy from the sensor nodes, a brief investigation into the architectures and components necessary to implement low-power sensor ...

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