PDEOZE PowerContainer

Huawei base station communication equipment

Overview

This article covers how Huawei’s BTS (Base Transceiver Station) equipment is architected, the key components, evolution from 2G/3G to LTE/5G, and crucially how lifecycle services—such as equipment repair, parts supply and asset management—can maximise value from these investments.What is a Huawei base station?

Let's dive into a technical explanation. A base station, also known as an eNodeB (for 4G LTE) or gNodeB (for 5G NR) in Huawei's terminology, is a piece of equipment that facilitates wireless communication between user equipment (UE) like smartphones, tablets, and IoT devices, and the core network of the telecommunications provider.

What systems does Huawei offer?

Huawei provides comprehensive management and control systems, such as Huawei's U2000 or Huawei's Cloud BTS. These systems enable operators to monitor, configure, and manage base stations remotely, ensuring optimal network performance and reliability.

What is dbs3900 dual-mode base station?

DBS3900 Dual-Mode Base Station is the fourth generation base station developed by Huawei. It features a multi-mode modular design and supports three working modes: GSM mode, GSM+UMTS dual mode, and UMTS mode through configuration of different software. In addition, the DBS3900 supports smooth evolution to the Long-Term Evolution (LTE).

What are the benefits of a distributed base station architecture?

This distributed base station architecture can reduce construction costs and improve network coverage and quality. The HUAWEI RRU5910 is a versatile Remote Radio Unit (RRU) designed for multi-mode operation across various frequency bands, including 900MHz, 1800MHz, and 2100MHz.

How many UMTS carriers can a bbu3900 support?

When the DBS3900 works in UMTS mode, a BBU3900 supports 24 cells, the maximum configuration of 3 x 8, 1,536 CEs in the uplink, 1,536 CEs in the downlink. In addition, the BBU3900 supports the HSDPA and HSUPA. An RRU3806 supports a maximum of four UMTS carriers.

What is a base station antenna system?

Antenna System: At the heart of a base station is the antenna system. This system radiates and receives radio frequency (RF) signals to and from mobile devices.

Huawei base station communication equipment

Let's dive into a technical explanation. A base station, also known as an eNodeB (for 4G LTE) or gNodeB (for 5G NR) in Huawei's terminology, is a piece of equipment that facilitates wireless communication between user equipment (UE) like smartphones, tablets, and IoT devices, and the core network of the telecommunications provider.

Huawei provides comprehensive management and control systems, such as Huawei's U2000 or Huawei's Cloud BTS. These systems enable operators to monitor, configure, and manage base stations remotely, ensuring optimal network performance and reliability.

DBS3900 Dual-Mode Base Station is the fourth generation base station developed by Huawei. It features a multi-mode modular design and supports three working modes: GSM mode, GSM+UMTS dual mode, and UMTS mode through configuration of different software. In addition, the DBS3900 supports smooth evolution to the Long-Term Evolution (LTE).

This distributed base station architecture can reduce construction costs and improve network coverage and quality. The HUAWEI RRU5910 is a versatile Remote Radio Unit (RRU) designed for multi-mode operation across various frequency bands, including 900MHz, 1800MHz, and 2100MHz.

When the DBS3900 works in UMTS mode, a BBU3900 supports 24 cells, the maximum configuration of 3 x 8, 1,536 CEs in the uplink, 1,536 CEs in the downlink. In addition, the BBU3900 supports the HSDPA and HSUPA. An RRU3806 supports a maximum of four UMTS carriers.

Antenna System: At the heart of a base station is the antenna system. This system

radiates and receives radio frequency (RF) signals to and from mobile devices.

Mar 26, 2022 · DBS3900 Dual-Mode Base Station is the fourth generation base station developed by Huawei. It features a multi-mode modular design and supports three working modes: GSM ...

RRU3936 900MHz 1800MHz 02310MNP Wireless base station communication equipment for Huawei Product overview Introducing the RRU3936 900MHz 1800MHz 02310MNP Wireless ...

Provides ports for connecting to the transmission equipment, RF modules, USB devicesa, external reference clock, and LMT or U2000 to transmit signals, perform automatic base ...

gNodeB (gNB): a 5G base station. gNBs are base stations deployed based on 5G standards to provide wireless access to 5G networks. 5G modem: is built into a router to implement the 5G ...

A BTS (Base Transceiver Station) from Huawei is the radio site equipment that supports mobile access technology (2G, 3G, 4G and in many cases migration towards 5G).

HUAWEI RRU5910 is a Huawei Remote Radio Unit used for wireless communication base stations. It supports frequency bands such as ...

Oct 24, 2025 · DBS5900 Distributed Base Stations The DBS5900 is a wireless access device for the eLTE wireless broadband private network solution. It provides wireless access functions, including air interface ...

Dec 23, 2023 · Huawei Base Station Overview: A base station, also known as an eNodeB (for 4G LTE) or gNodeB (for 5G NR) in Huawei's terminology, is a piece of equipment that facilitates ...

Nov 1, 2025 · Summary Huawei 5G-A smart base stations redefine the intelligent standards of communication infrastructure through the "AI chip + digital twin + multi-agent" technology stack.

HUAWEI RRU5910 is a Huawei Remote Radio Unit used for wireless communication base stations. It supports frequency bands such as 900MHz, 1800MHz and 2100MHz, and has a ...

Oct 24, 2025 · DBS5900 Distributed Base Stations The DBS5900 is a wireless access device for the eLTE wireless broadband private network solution. It provides wireless access functions, ...

Huawei's base stations, such as the DBS5900 and DBS3900, are advanced wireless access devices designed to support various network technologies, including 4G LTE and 5G NR. ...

Contact Us

For catalog requests, pricing, or partnerships, please visit: https://pdeozepv.pl