

What does au mean in cabinet 5g base station

This PDF is generated from: <https://fastmovesecurity.co.za/Thu-08-Jan-2026-36358.html>

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Generated on: 2026-04-11 14:56:03

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What is a 5G active antenna unit (AAU)?

The Active Antenna Unit (AAU) is a fundamental element in the radio access network (RAN) of a 5G network. Its primary purpose is to enhance the efficiency and performance of the radio communication between user devices (like smartphones) and the 5G base station. Let's delve into the technical details of the Huawei AAU in the context of 5G:

How does a 5G base station work?

The 5G Base Station uses a set of antennas that connect with the distributed unit. These antennas can be implemented using a passive or active architecture. These are connected to the Base Station cabinet using feeder cables. The Base Station cabinet includes the transceiver and RF processing functions.

What is a 5G baseband unit?

The 5G baseband unit is responsible for NR baseband protocol processing, including the entire user plane (UP) and control plane (CP) protocol processing functions, and provides the backhaul interface (NG interface) with the core network and the interconnection interface between base stations (Xn interface).

Why is a 5G antenna more expensive than a RRU?

It is also for this reason that in 5G, the RRU and the original passive antenna are integrated into one, forming the latest AAU (active antenna processing unit). The antenna is integrated, so the volume and weight of the AAU are larger than that of the RRU, the power consumption is also greatly increased, and the price is much more expensive.

5G base station is the core equipment of 5G network, which provides wireless coverage and realizes wireless signal transmission between wired communication network and wireless ...

The base station is comprised of two main components: the active antenna unit (AAU) and the baseband unit (BBU) (see Figure 1). The AAU receives and transmits the radio signals that facilitate ...

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In the 5G era, the structure of the base station has undergone new changes, and a new device AAU has appeared. The reason why AAU appeared in 5G is actually because 5G introduced ...

Explore how 5G base stations are built--from site planning and cabinet installation to power systems and cooling solutions. Learn the essential components, technologies, and challenges ...

One of the key components of 5G is the Radio Access Network (RAN) architecture, which is responsible for managing the wireless connections between devices and the network. This article ...

The advent of Active Antenna Units (AAUs) marked a paradigm shift in base station architecture. AAUs replace the standard antenna to integrate multiple functionalities into a single, compact unit, ...

The Base Station cabinet is a single unit that includes both the RF functions and the baseband processing functions. The antenna subsystem connects with the antenna and includes the ...

In Cu-du-AAU architecture, the baseband functions are distributed to the CU and DU physical devices, which together form a 5G baseband unit. The F1 interface between CU and DU is the intermediate ...

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