

Title: Outdoor base station bburru

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## What are RRU & BBU?

RRU and BBU are crucial components in base station construction, enabling a distributed architecture that improves efficiency and reliability. RRU (Radio Remote Unit) and BBU (Building Baseband Unit) are indispensable components in base station construction and FTTA.

### How does RRU connect to BBU?

Via optical fiber. The RRU connects to the BBU, forming a new "distributed" architecture. At the base of the tower locates BBU while the RRU is at the top of the tower. The RRU is further connected to the antennas via coaxial cables and power dividers (couplers), with the main trunk using optical fiber and the branch lines using coaxial cables.

### How many logical base stations does a BBU generate?

For macro stations, one BBU generates one logical base station (a base station consists of BBU, RRU, and antennas). One BBU connects to three RRUs (in general cases, excluding remote scenarios or situations in 3G where some macro stations correspond to four cells). One RRU corresponds to one antenna, and one antenna corresponds to one sector.

### What are RRU and BBU in FTTA?

RRU (Radio Remote Unit) and BBU (Building Baseband Unit) are indispensable components in base station construction and FTTA. In a distributed base station architecture, the traditional macro station equipment have two distinct units based on their functions: the BBU and the RRU.

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It's suitable for harsh environments such as fiber-to-the antenna (FTTA) cabling in LTE/4G/5G networks, base stations and also ...

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