

Base station AAU and BBU battery specifications



Overview

This article described the basics of 5G and introduced two MPS parts — the MPQ8645 and MP87190 — that can be used to improve the AAU or BBU architecture within a 5G base cell station. Because it is the latest standard, 5G is significantly faster and more efficient than previous generations; in addition, it can operate across three frequency ranges (low-band, mid-band, and high-band) to provide widespread coverage and speed for consumers. It is estimated that, by 2026 and in China only, over 14 million new and upgraded 5G BSs will be built, with a total of 14 million BSs. Designed for deployment on a BBU Shelf within a data center rack, a Battery Back-up Unit (BBU) serves the purpose of supplying DC power to system loads in the event of sudden power interruptions. Thank you! . The two figures above show the actual power consumption test results of 5G base stations from different manufacturers, ZTE and HUAWEI, in Guangzhou and Shenzhen, by an anonymous operator. While there is a lot of talk about 5G's advantages in speed, performance and bandwidth, there are also concerns.

Base station AAU and BBU battery specifications



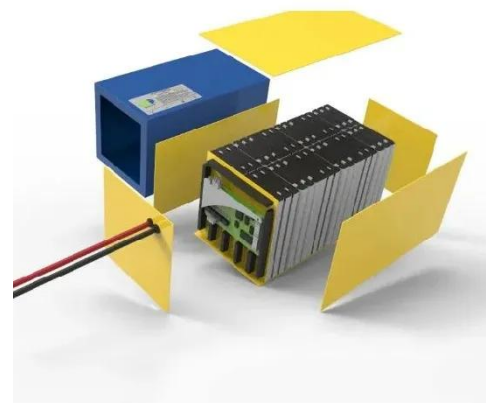
ADI OCP ORV3 BBU Reference Design [Analog Devices Wiki]

Designed for deployment on a BBU Shelf within a data center rack, a Battery Backup Unit (BBU) serves the purpose of supplying DC power to system loads in the event of sudden power interruptions.

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5G mmWave BBU_mmWave Distributed Base Station_SageRAN ...

It is a small and low-power indoor distributed small base station that provides 5G mobile signal coverage for indoor scenarios through access to fixed broadband, proprietary backhaul, and other means to the mobile ...



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DM_5G Base Stations_EN_20210928.ai

SUNON can offer custom-designed thermal modules to various base station applications by flexibly configuring both active cooling fans and passive cooling components. SUNON's compact and highly efficient thermal ...

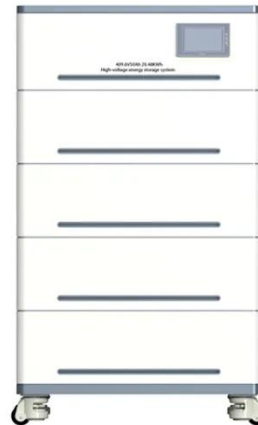


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Front Line Data Study about 5G Power Consumption

Data shows the power of the BBU is relatively stable and is affected very little by the workload, while AAU is opposite, with power consumption growing as the load increases.

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ORV3 BBU Module Reference Design (Rev 0.5)

Christian Cruz - Senior Product Applications Engineer - Analog Devices
 Agenda(as applicable)BBU Module Hardware Diagram
 Cell Health Monitoring Telemetry Data Collection Display
 Call to Action
 Juan Brizo - Test Engineering Manager - Analog Devices
 Vermont Sanchez - Equipment Development Engineer - Analog Devices
 Regina Gavino - Senior PCB Layout Engineer - Analog Devices
 Fengrui Zuo - Systems Applications Engineer - Analog Devices
 See more on [146a55aca6f00848c565-a7635525d40ac1c70300198708936b4e.ssl.cf1.rackcdn](https://www.linkedin.com/company/analog-devices) dappworks

Front Line Data Study about 5G Power Consumption

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What Is The All Aau Product Names and The All Bbu Product

The document lists various AAU (Active Antenna Unit) and BBU (Baseband Unit) products that support FDD mode in both 5G NR and 4G LTE. Key AAU products include models from Huawei, ZTE, and others, while ...



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An Introduction to 5G and How MPS Products Can Optimize a

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This article described the basics of 5G and introduced two MPS parts -- the MPQ8645 and MP87190 -- that can be used to improve the AAU or BBU architecture within a 5G base cell station.

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Smart Battery Backup for Uninterrupted Energy Part 2: BBU

This is Part 2 of a five-part series highlighting Analog Devices' reference design for the battery backup unit (BBU). The first part, " Smart Battery Backup for Uninterrupted Energy Part 1: Electrical and Mechanical ...

LPW48V100H
48.0V or 51.2V



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Battery Backup Unit

The battery backup unit (BBU) provides the WPAN range extender with an emergency power source if the AC power source is unavailable. The unit is mounted in the range extender housing.

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ORV3 BBU Module Reference Design (Rev 0.5)

Mechanical Design Summary OCP BBU ORV3 - rev 0.5 BBU module - compliant with specification 78.1mm x 87.6mm x 674mm (W x H x L).



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Optimal Backup Power Allocation for 5G Base Stations

4.3.2 Power Consumption of 5G BS Major Components The power consumption comparison of the major components (AAU and BBU) in 5G BSs is shown in Fig. 4.2b, from which we can observe that:

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