

# 5G Macro Base Station User Cabinet Network-Connected Operation and Maintenance

What equipment is used in a 5 g macro base station?

The communication equipment mainly comprises the baseband unit(BBU) and the active antenna unit (AAU),which are responsible for baseband signal processing and signal transmission respectively. Each user is connected to a 5 G macro base station to meet their communication demands.

How many mobile users are connected to a macro base station?

The macro base station is connected to a total of 300 mobile users,with the distance distribution between users and the base station following a normal distribution with a mean of 700 m and a standard deviation of 150 m. Among these users,50 % do not adopt the communication caching strategy,i.e., $k = 0$ .

What is a 5G macro BS homogeneous network?

The 5G macro BS homogeneous network is shown in Figure 1. The main energy-consuming equipment in a macro BS include the communications equipment, an AC, a backup battery, and a renewable generation unit.

What is 5G & how does it affect a communication system?

The construction of the 5G network in the communication system can potentially change future life and is one of the most cutting-edge engineering fields today. The 5G base station is the core equipment of the 5G network, and the performance of the base station directly affects the deployment of the 5G network.

Moving up the mast In the era of 4G, network installations typically relied upon heavy duty infrastructure such as large power masts and passive cables and antennas, with much of the ...

As 5G technology continues to evolve, the deployment of macro base stations becomes increasingly critical. These large-scale cellular towers form the backbone of 5G networks, enabling ...

Abstract With the increasing amounts of terminal equipment with higher requirements of communication quality in the emerging fifth generation mobile communication network (5G), the energy consumption ...

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This paper discusses the site optimization technology of mobile communication network, especially in the aspects of enhancing coverage and optimizing base station layout. With the ...

Coordination of Macro Base Stations for 5G Network with User Clustering Kun Li, Xiaomeng Ai, Jiakun Fang \*, Bo Zhou, Lingling Le and Jinyu Wen

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On the basis of ensuring smooth user communication and normal operation of base stations, it realizes orderly regulation of energy storage for large-scale base stations, participates in ...

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