

# How many 5G communication micro base stations are needed in second-tier cities

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RUDN mathematicians have developed a model that allows you to calculate how many 5G stations you need to put in order to achieve the required network parameters.

Explore 5G backhaul capacity needs by site type, spectrum allocation, MIMO configurations, and cell type to ensure optimal network performance.

Typically covers a few hundred meters, requiring dense deployment in urban areas. Multiple micro base stations in close proximity can create signal interference. Although ...

There are several reasons for high energy consumption. Among them, we find that the increase in base station density of the 5G heterogeneous network (5G HetNets) is ...

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In the 5G millimeter wave era, antennas are getting smaller and smaller, and the number is increasing in pairs. Nowadays, most 4G mobile phones are 2x2, 5G is at least 4x4, ...

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