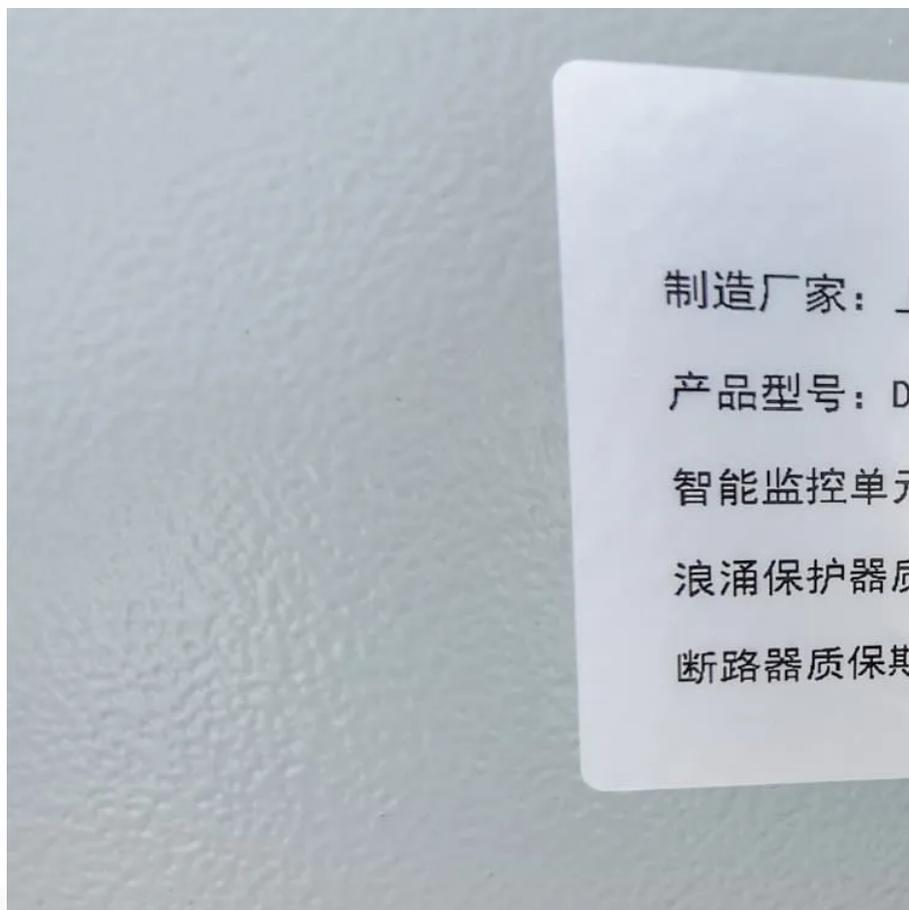


Belgian 5G hybrid energy base station address





Overview

Where is the 5G network in Belgium?

Network Research Belgium (in the 3600 MHz band) (NRB's 5G user rights were transferred to Proximus in 2024). The 5G network coverage can be viewed [here](#). Overall, the 5G network appears to be better developed in the northern area of Belgium, in particular in Antwerp, Ghent and coastal cities, as well as in the periphery of Brussels.

When were 5G regulations adopted in Belgium?

5G regulations were finally adopted on 28 November 2021. The national regulatory authority (the Belgian Institute for Postal Services and Telecommunications or BIPT) then adopted a series of individual decisions on 23 August 2022 and 16 November 2022 granting 5G user rights to the following operators:.

Which B2C network has the best 5G coverage in Belgium?

In terms of B2C territorial coverage, Telenet has the greatest 5G outdoor coverage with 85% of the Belgian territory, followed by Proximus with 75% and Orange Belgium with 63%. Telenet has the broadest B2C 5G indoor coverage with 57% of the territory, followed by Proximus with 43% and Orange with 40%.

Which 5G operators are active in the B2B segment?

Some of the 5G operators, such as Citymesh Mobile, are primarily active in the B2B segment. Since then, a Royal Decree of 4 June 2023 has allowed the establishment and operation of a private broadband radio local area network using 5G technology, subject to prior authorisation by the BIPT and to the regime set out by the 2023 Decree.



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Map of the city of Ghent, Belgium with the possible LTE base stations

In this paper, the power consumption of Long Term Evolution (LTE) base stations is optimized. We consider the city of Ghent, Belgium with 75 possible LTE base station locations.

Selected area in Ghent, Belgium, and the possible locations of the base

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