

# **Madrid Communications and 5G Base Stations**





## Overview

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Why is Spain launching a private 5G network in Madrid?

The second tender requires the launch of two private 5G standalone networks for two military facilities in Madrid. The Spanish navy is also seeking a portable private network communication system for two of its ships to reduce the dependence on satellite communications.

How will 5G impact Spain?

This technology will have a positive impact on aspects such as improved competitiveness, productivity, efficiency, and higher quality in the provision of services. Therefore, Spain has defined a roadmap aimed at the implementation of 5G throughout the national territory, as well as the restructuring of certain frequency bands.

Is 5G available in Spain?

Telefonica said its 5G NSA service in the 700 MHz band is currently available to around 85 percent of the Spanish population across 2,200 municipalities. The Spanish operator also uses the 3.5 GHz band for 5G and invested EUR 20 million to secure the maximum possible 1 GHz of spectrum in the 2.6 GHz band.

Does Telefónica have a 5G network?

Telefónica has followed Orange with the official launch of a 5G standalone (SA) network in more than 700 towns and cities throughout Spain. The service is branded Movistar 5G+ even though it is just 3GPP defined real 5G (with its own core network , rather than 5G NSA which uses LTE core network) .



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### Digital connectivity in Spain

3 days ago · Digital connectivity and 5G rollout are among the ten strategic priorities in Spain. The agenda aims to extend ultrafast network coverage to the entire population and prepare 100% ...

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### Movistar expands 3.5 GHz 5G network to 8,178 sites

Aug 11, 2025 · Spanish mobile operator Movistar, owned by Telefonica, ended July 2025 with 8,178 active 5G base stations in the 3.5 GHz band, according to the latest official data from ...

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### Spain to spend EUR50 million on 5G MoD

Apr 11, 2023 · The second tender requires the launch of two private 5G standalone networks for two military facilities in Madrid. The Spanish navy ...

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### Telefónica launches 5G SA in >700 towns and cities in Spain

Jul 3, 2023 · Telefónica - Nokia alliance for private mobile networks to accelerate digital transformation for enterprises in Latin America Orange-Spain deploys 5G SA network ("5G+") ...

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### 5G Roadmap , España Digital 2026

5G is a disruptive technology, a cornerstone of digitalization, characterized by constant and dynamic technological change. This technology will have a positive impact on aspects such as ...

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### Spain to spend EUR50 million on 5G MoD

Apr 11, 2023 · The second tender requires the launch of two private 5G standalone networks for two military facilities in Madrid. The Spanish navy is also seeking a portable private network ...

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### Madrid, capital of 5G technology

The city of Madrid has become the benchmark for the most powerful connectivity network thanks to the presentation of the 5G Madrid project by Telefónica, a member of the Companies for ...

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### Movistar 5G accelerates deployment: more ...

Aug 8, 2025 · Movistar reaches 8.187 5G nodes at 3,5 GHz, with 1.229 new stations in four months. It extends its lead over Masorange and Vodafone; ...

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### Exploring Spain's Massive Upgrade of 5G Stations with Fibre

Jul 18, 2023 · A significant EUR448 million funding package has been distributed among several telecommunications operators by the Spanish government. The goal is to cover the cost of ...

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### 5G indicators: infrastructure deployment , Shaping Europe's ...



6 days ago · The European 5G Observatory tracks progress in 5G infrastructure deployment across the EU and other regions worldwide according to base stations deployment, edge ...

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Exploring Spain's Massive Upgrade of 5G ...

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5G Base Station Construction Market in Spain

5G Base Station Construction in Spain Trends and Forecast The future of the 5G base station construction market in Spain looks promising with opportunities in the smart home, medical & ...

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Movistar 5G accelerates deployment: more nodes and ...

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