

Thailand Communication Micro Base Station





Overview

The deployed network delivers 5G, 4G, and 3G services to support communications for government agencies and military forces operating in the Phu Makua area. Previously, this location had no mobile signal coverage, seriously limiting communication for government operations. Which MHz band is suitable for small cell deployment in Thailand?

While around 3,200 MHz of mobile spectrum has been assigned in Thailand, the 26 GHz mmWave band – suitable for localised small cell deployment due to its propagation characteristics – accounts for most of this figure.

How many MHz are assigned in Thailand?

There has been no change in the total frequency assignments in Thailand according to the Frequency allocation plan for IMT for Thailand (2024-2028). As shown in Table 1, only 450 MHz is currently assigned in the mid-band range, compared to an average of 850 MHz in the Asia-Pacific region today.

How much 5G spectrum should be allocated in Thailand?

Current 5G spectrum assignments in Thailand (excluding legacy IMT holdings)
Amount of 700 MHz band allocated Amount of 2.6 GHz band allocated Amount of 26 GHz band allocated
Each of the operators is recommended to hold The amount of low band allocated is sufficient to support 5G services provision from all service providers.

What is the current IMT spectrum assigned in Thailand?

Current IMT spectrum assigned in Thailand Source: GSMA, APT In Thailand, monthly mobile data traffic per connection has grown from 19.8 GB in 2020 to 30.6 GB as of Q3 2024.¹⁸ This is already significantly higher than neighbouring countries in Southeast Asia.

Does Thailand have a 5G network?

Thailand, led by the NBTC along with neighbouring countries, have undertaken



various information exchanges on frequency planning and 5G deployment plans, joint testing of interference situations and assessing solutions to prevent harmful interference.

What should Thailand do for 5G and 5g-a development?

It is therefore important for Thailand to maintain momentum and prioritise the following actions for 5G and 5G-A development: — Make at least 300 MHz of spectrum available in the globally harmonised 3.5 GHz band as soon as practicable. Avoid unnecessarily large guard band between mobile and fixed satellite service (FSS).



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[??????????????? 5G ?????????????????????????????????
\(Base Station\)](#)

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Station) ???
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[CUAV LBA 3 UAV Communication Micro Base Station covers](#)

CUAV LBA 3 UAV Communication Micro Base Station is a micro base station equipment for UAV medium and long-distance networking communication, with 54km coverage range, 30Mbps large bandwidth



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Mobile data traffic per connection in Thailand is among the highest in ASEAN. Yet, more work is needed to ensure there are sufficient spectrum



resources to support the next phase of 5G ...



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At present, the networking mode of base station is based on macro base stations and micro base stations as a supplement [7, 8]. Before 3G, communication services were mainly aimed for ...

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Due to their small size and low power consumption, mBSs can be easily deployed on street lamps, traffic lights, or building facades where traditional base stations cannot be installed. They ...



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