

# **Indonesia Communications 5G Small Base Station**





## Overview

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Does Indonesia have a 5G network?

In Indonesia, 5G rollout is progressing, with commercial services launched by Telkomsel, Indosat Ooredoo and XL Axiata since 2021, utilising existing spectrum holdings in the 1800 MHz, 2.1 GHz and 2.3 GHz bands. As of the end of 2024, 5G networks covered 26.3% of Indonesia's population, or around 15.7 million 5G connections.

Why is spectrum access important for 5G in Indonesia?

Timely access to IMT spectrum, particularly in the mid-band range, is essential for 5G and future 6G development in Indonesia. The key challenges to securing spectrum access for IMT are technical and financial. Below, we discuss the key issues and recommendations to secure sufficient spectrum for 5G services in Indonesia.

Can 5G BWA devices be used indoors?

Usage Limitation: Subscriber stations are limited to indoor use only. In accordance with Ministerial Regulation No. 3 of 2024, all 5G BWA devices must undergo DJID/SDPPI certification using these technical standards as references. Stakeholders including manufacturers, importers, and vendors must ensure compliance through certified testing labs.

Will the 5G era boost economic growth in Indonesia?

The 5G era will help to accelerate this process and boost economic growth in the country in the years ahead. In Indonesia, mobile data traffic per connection has grown strongly in recent years, reaching over 16 GB per connection in 2024. 5G is being implemented with limited launches by operators using mainly their existing legacy spectrum holdings.

Do 5G BWA devices need djid/sdppi certification?

In accordance with Ministerial Regulation No. 3 of 2024, all 5G BWA devices



must undergo DJID/SDPPI certification using these technical standards as references. Stakeholders including manufacturers, importers, and vendors must ensure compliance through certified testing labs. Need Help with SDPPI/DJID Certification?

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Which 5G band is most supported in the world?

According to the GSA, 5G deployments in the 2.6 GHz band are the equal fourth most supported globally. Of the announced 5G device models supporting key 5G spectrum bands, 2.6 GHz (n41) had the second strongest ecosystem after 3.5 GHz with over 1,800 device models.<sup>27</sup> 3.5 GHz with more than 1,800 device models. Source: GSMA Intelligence.



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### [4+5G Open-platform iCell Small Cell System](#)

Comba 4+ 5G open platform iCell small cell is a small, low power, distributed base station system, which adopts digital technology and fiber infrastructure, providing 4+ 5G indoor coverage signal.

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### [Technical Standards for 5G BWA Devices in Indonesia Tahun 2025](#)

The Indonesian Ministry of Communication and Digital (KOMDIGI) has issued Ministerial Decree No. 204 of 2025, setting the technical standard for Broadband Wireless ...

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### [Global 5G Base Station Industry Research Report](#)

The 5G base station is the core device of the 5G network, providing wireless coverage and realizing wireless signal transmission between the wired communication network and the ...

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### [Long way to 5G in Indonesia - MTN Consulting](#)

Indonesia, the world's fourth most populous country, is expected to face an uphill battle to enable 5G. Reasons include its complex geography, unavailability of ...

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### [Domestic 5G small base station chips achieve breakthrough: from ...](#)

H3C, a well-known domestic network communications company, director of mobile communications product line, said that UCP4008 is a 5G small base station chip with ...

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### [Indonesia's 5G Broadband Devices New Technical...](#)

This regulation applies to both subscriber and base station devices used for Broadband Wireless Access (BWA) and is part of Indonesia's broader ...

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### [A guide to 5G small cells and macrocells](#)

Small-cell base stations, known as transceivers, use low power and are implemented in densely populated areas and are cheaper and much faster to deploy than the ...

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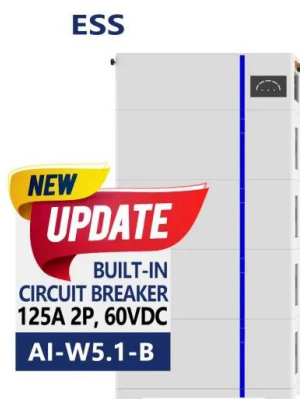
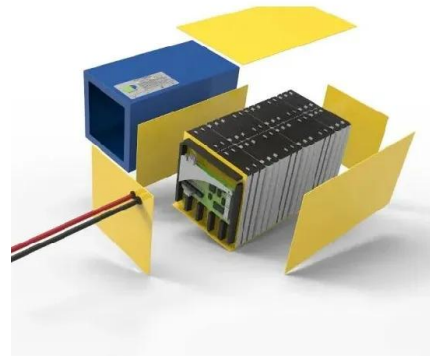




### [Energy Efficiency Challenges of 5G Small Cell Networks](#)

The deployment of a large number of small cells poses new challenges to energy efficiency, which has often been ignored in fifth generation (5G) cellular networks. While massive multiple-input ...

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### [Indonesia's 5G Broadband Devices New Technical Standards](#)

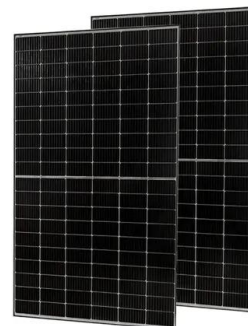
This regulation applies to both subscriber and base station devices used for Broadband Wireless Access (BWA) and is part of Indonesia's broader effort to modernize its ...

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### [Dynamic Power Management for 5G Small Cell Base Station](#)

5G networks with small cell base stations are attracting significant attention, and their power consumption is a matter of significant concern. As the increase of the expectation, concern for ...

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### [Regulation Update: Indonesia's Technical Standard for 5G BWA...](#)

Explore the updated technical requirements for Broadband Wireless Access (BWA) 5G devices based on IMT-2020, according to KOMDIGI Decree No. 204 of 2025.

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### [New Indonesia Technical Standard for 5G Broadband Wireless ...](#)

The Ministry of Communications and Informatics (KOMDIGI) has issued Ministerial Decree No. 204 of 2025 regarding new Indonesia technical standard for 5G devices operating ...

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### [Accelerating 5G in Indonesia: A spectrum roadmap for success](#)

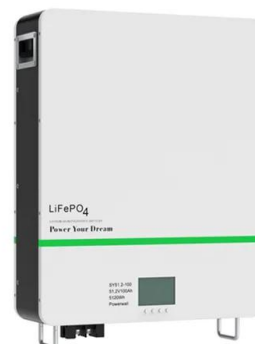
In Southeast Asia, 5G mid-bands will boost annual GDP by \$35 billion by 2030, heavily driven by the large Indonesian market, which will account for 41% of this increment. To secure these ...

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### [New Indonesia Technical Standard for 5G Broadband Wireless...](#)

This regulation regarding new Indonesia technical standard for 5G devices applies to subscribers and base station devices used for Broadband Wireless Access (BWA).

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### [Research and Implementation of 5G Base Station Location...](#)

The application requirements of 5G have reached a new height, and the location of base stations is an important factor affecting the signal. Based on factors such as base station ...

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## The Applicability of Macro and Micro Base Stations for 5G Base Station

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 ...

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## [A Dual-Band Dual-Polarized Antenna for Small Base Station](#)

Therefore, this paper proposed a dual-band dual-polarized antenna for small base station applications that can cover the low band (3G/4G bands) and high band (5G NR band ...

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## [Indonesia Issues New Technical Standards for 5G SS BWA Devices](#)

On June 24, 2025, Indonesia's Ministry of Communication and Digital Affairs (KOMDIGI) published KEPMEN KOMDIGI NOMOR 204 TAHUN 2025, setting out new ...

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## [Small Cells, Big Impact: Designing Power Solutions for 5G...](#)

What are small cells? Telecommunications equipment manufacturers have taken traditional macro radio designs and shrunk them down into what's called a small cell. Small cells are smaller ...

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### [Indonesia 5G Infrastructure Market Size and Forecasts 2030](#)

Major telecom operators and network equipment providers in Indonesia are investing heavily in upgrading their infrastructure to 5G technology, including base stations, small cells, and edge ...

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### [5G Certification in Indonesia: Mandatory Requirements](#)

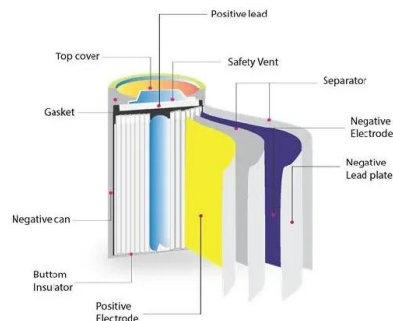
Discover Indonesia's mandatory certification for 5G devices, technical requirements, and testing procedures to comply with SDPPI (DJID) & Ministry of ...

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### [4G & 5G Base Station Antennas Market Analysis and Forecast](#)

The 4G & 5G Base Station Antennas Market grew from USD 5.64 billion in 2024 to USD 6.68 billion in 2025. It is expected to continue growing at a CAGR of 18.72%, reaching ...

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### [4+5G Open-platform iCell Small Cell System](#)

Comba 4+ 5G open platform iCell small cell is a small, low power, distributed base station system, which adopts digital technology and fiber infrastructure, ...

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### [Indonesia Sets New Technical Standards for 5G-Based ...](#)

Indonesia's Ministry of Communication and Digital has issued Decree No. 204 of 2025, establishing technical standards for 5G-based Broadband Wireless Access (BWA) ...

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