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ICS 33.060.99
CCS M36

YD

INDUSTRY STANDARD OF THE PEOPLE'S REPUBLIC OF CHINA

YD/T 6421-2025

5G base station energy efficiency test method

5G基站能效测试方法

(English Translation)

Issued on: July 2, 2025 **Implemented on: November 1, 2025**

Issued by: Ministry of Industry and Information Technology

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1 Foreword

YD/T 6421-2025 was issued by Ministry of Industry and Information Technology on 2 July 2025 and has been in force since 1 November 2025.

The YD/T prefix marks a recommended standard. It is not law in itself: it becomes binding when a contract names it, when a regulation or a mandatory standard refers to it, or when a producer declares conformity with it.

The document runs to 15 pages in English translation.

2 Scope Preview

This standard defines the energy efficiency of 5G base stations, specifies the test configuration, and describes the 5G base station energy efficiency test service model and test methods. This standard is applicable to the energy efficiency testing of 5G base station equipment in enhanced mobile broadband (eMBB) scenarios with macro coverage (including integrated, distributed, etc.).

YD/T 6421-2025 falls under ICS 33.060.99, in the field of telecommunications.

This catalogue holds 3,420 other YD/T standards in that field.

In this catalogue, YD/T standards carry edition years from 1982 to 2026.

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3 About this standard

Sector: Telecommunication Industry Standard (Recommended)

Issued by: Ministry of Industry and Information Technology

English translation: about 15 pages (approximate)

4 Related standards

Standards on related subjects:

YD/T 3711-2020 - Technical requirement of IMS based vehicle eCall system based on public telecommunication network

GB/T 32401-2015 - Technical requirements and measurement methods for VHF/UHF frequency

GB/T 12572-2008 - Universal requirements and measurement methods of parameters for radio transmitting equipment

YD/T 6427-2025 - 5G digital cellular mobile communication network MIMO single cable coverage system - Test method for network management interface of dual channel frequency shift system

YD/T 6426-2025 - Test method for 5G network slice interface of NSMF and CN-NSSMF

YD/T 6424-2025 - 5G mobile telecommunication network - Technical requirements and test method of SBI interface (Phase 2)

5 Classification and status

International classification (ICS): 33.060.99

Chinese Standard Classification (CCS): M 36

Prefix YD/T: recommended standard.

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