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ICS 33.060.99
CCS M36

YD

INDUSTRY STANDARD OF THE PEOPLE'S REPUBLIC OF CHINA

YD/T 6538-2025

5G digital cellular mobile telecommunication network - Test method of sub 6GHz gNB equipment (Phase 3)

5G数字蜂窝移动通信网6GHz以下频段基站设备测试方法（第三阶段）

(English Translation)

Issued on: December 17, 2025 **Implemented on: April 1, 2026**

Issued by: Ministry of Industry and Information Technology

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https://chinastandards.org/standards/yd-t-6538-2025

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1 Foreword

YD/T 6538-2025 was issued by Ministry of Industry and Information Technology on 17 December 2025 and has been in force since 1 April 2026.

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 specifies the basic requirements for lightweight (RedCap) support for 5G base stations in sub-6 GHz bands, and test methods for functions such as MIMO enhancement, small packet transmission, coverage enhancement, terminal power saving support, emergency calls, uplink enhancement, uplink data compression, and downlink 1024QAM modulation. This standard applies to the research, development, production, and testing of base station equipment in sub-6 GHz bands of 5G digital cellular mobile communication networks.

YD/T 6538-2025 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 6539-2025 - 5G multi-mode digital distribution indoor system equipment technical requirements

YD/T 6537-2025 - 5G digital cellular mobile telecommunication network - Technical requirement of sub 6GHz gNB equipment (Phase 3)

YD/T 6536-2025 - 5G digital cellular mobile telecommunication network - Technical requirement of RedCap user equipment (Phase 1)

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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