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ICS 33.030
CCS M21

YD

# INDUSTRY STANDARD OF THE PEOPLE'S REPUBLIC OF CHINA

# YD/T 6445-2025

## Technical specifications for Quantum Random Number Generator (QRNG)

量子随机数发生器技术规范

**(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 6445-2025 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 specifies the functional model, technical solution, technical requirements, and test methods for quantum random number generators. This standard applies to the research, development, testing, use, and management of quantum random number generators.

YD/T 6445-2025 falls under ICS 33.030, 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.

## 3 About this standard

Sector: Telecommunication Industry Standard (Recommended)



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## 4 Related standards

Standards on related subjects:

YD/T 3909-2021 - Vehicle emergency call system based on public telecommunication network - Requirements and architecture

YD/T 3910-2021 - Vehicle emergency call system based on public telecommunication network - Technical requirements and test method of the vehicle emergency rescue platform

YD/T 1761-2012 - Technical requirements for web accessibility

YD/T 6452-2025 - Metrics and methods of public application-oriented quality evaluation for mobile internet - Mobile gaming

YD/T 6451-2025 - Metrics and methods of industry application-oriented quality evaluation for mobile internet - Location and Timing Service

YD/T 6446-2025 - Technical requirements and testing methods for secure user plane location service platform based on 5G

## 5 Classification and status

International classification (ICS): 33.030

Chinese Standard Classification (CCS): M 21

Prefix YD/T: recommended standard.



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