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ICS 33.180
CCS M33

YD

INDUSTRY STANDARD OF THE PEOPLE'S REPUBLIC OF CHINA

YD/T 6309-2024

Quantum Key Distribution (QKD) Network - Safety Technical Requirements

量子密钥分发（QKD）网络 安全技术要求

(English Translation)

Issued on: December 10, 2024 **Implemented on: April 1, 2025**

Issued by: Ministry of Industry and Information Technology

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https://chinastandards.org/standards/yd-t-6309-2024

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1 Foreword

YD/T 6309-2024 was issued by Ministry of Industry and Information Technology on 10 December 2024 and has been in force since 1 April 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 security technical requirements of the quantum key distribution (QKD) network, including the security threat framework, security requirements, security measures, and security level protection of the QKD network. This standard applies to the planning, design, construction, and operation of the quantum key distribution network.

YD/T 6309-2024 falls under ICS 33.180, 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 2554.1-2013 - Plastic optical fiber connector - Part 1: Type LC

GB/T 9771.1-2008 - Single-mode optical fibres for telecommunication -- Part 1: Characteristics of a dispersion unshifted single-mode optical fibre

GB/T 18480-2001 - Specification for submarine optical fiber cables

YD/T 1181.3-2026 - Characteristics of non-metal reinforcement for optical fiber cables - Part 3: aramid fiber reinforced plastic rods

YD/T 1181.1-2026 - Characteristics of non-metal reinforcement used for optical fiber cables - Part 1: Glass fiber reinforced plastic rods

YD/T 1114-2026 - Halogen-free flame retardant optical fibre cable

5 Classification and status

International classification (ICS): 33.180

Chinese Standard Classification (CCS): M 33

Prefix YD/T: recommended standard.

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