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ICS 33.040.99
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YD

INDUSTRY STANDARD OF THE PEOPLE'S REPUBLIC OF CHINA

YD/T 6060-2024

Quantum Key Distribution (QKD) Network - Technical requirements for Kq interface

量子密钥分发（QKD）网络 Kq接口技术要求

(English Translation)

Issued on: October 24, 2024 **Implemented on: February 1, 2025**

Issued by: Ministry of Industry and Information Technology

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1 Foreword

YD/T 6060-2024 was issued by Ministry of Industry and Information Technology on 24 October 2024 and has been in force since 1 February 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 technical requirements for the Kq-1 and Kq-2 interfaces between the key manager (KM) and the QKD device in the quantum key distribution (QKD) network, including the interface operation requirements, communication methods, business interaction processes, basic security requirements, interface functions, and interface message descriptions. This standard applies to the design and development of Kq interfaces in quantum key distribution (QKD) networks.

YD/T 6060-2024 falls under ICS 33.040.99, 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 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 1114-2026 - Halogen-free flame retardant optical fibre cable

YD/T 6059.1-2024 - Quantum Key Distribution (QKD) Equipment Security Requirements - Part 1: QKD equipment based on the BB84 protocol in a decoyed state

YD/T 6053-2024 - Testing method for access network equipment supporting SRv6 function

5 Classification and status

International classification (ICS): 33.040.99

Chinese Standard Classification (CCS): M 33

Prefix YD/T: recommended standard.

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