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ICS 33.180.01
CCS M33

YD

INDUSTRY STANDARD OF THE PEOPLE'S REPUBLIC OF CHINA

YD/T 3835.2-2023

Quantum Key Distribution (QKD) System Test Method - Part 2: QKD System Based on Gaussian Modulated Coherent State Protocol

量子密钥分发（QKD）系统测试方法 第2部分：基于高斯调制相干态协议的QKD系统

(English Translation)

Issued on: December 20, 2023 **Implemented on: April 1, 2024**

Issued by: Ministry of Industry and Information Technology

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1 Foreword

YD/T 3835.2-2023 was issued by Ministry of Industry and Information Technology on 20 December 2023 and has been in force since 1 April 2024.

It is one of 2 parts of the YD/T 3835 series.

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.

2 Scope Preview

This standard specifies the test method of quantum key distribution (QKD) system based on Gaussian modulation coherent state protocol using optical fiber channel transmission, mainly including system test reference points, system parameter test, QKD equipment test, combiner/demultiplexer test, optical path Switch testing, other system testing, network element management function verification, etc. This standard is applicable to the testing of QKD systems based on Gaussian modulation coherent state protocol using optical fiber channel transmission.

YD/T 3835.2-2023 falls under ICS 33.180.01, 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

Other parts of this standard:

YD/T 3835.1-2021 - Quantum key distribution (QKD) system test method - Part 1: QKD system based on decoy state BB84 protocol

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 3831.3-2025 - Integrated coherent transmit-receive optical sub-assembly - Part 3: 800Gb/s

YD/T 3834.2-2023 - Quantum Key Distribution (QKD) System Technical Requirements - Part 2: QKD System Based on Gaussian Modulated Coherent State Protocol

5 Classification and status

International classification (ICS): 33.180.01

Chinese Standard Classification (CCS): M 33

Prefix YD/T: recommended standard.

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