

ICS 33.040
CCS M30

YD

**INDUSTRY STANDARD OF THE
PEOPLE'S REPUBLIC OF CHINA**

YD/T 6901-2026

**Quantum Key Distribution (QKD) network - Key management
technical requirements**

量子密钥分发 (QKD) 网络 密钥管理技术要求
(English Translation)

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Table of Contents

Foreword

1 Scope

2 Normative references

3 Terms and definitions

Foreword

YD/T 6901-2026 is a recommended industry standard of the People's Republic of China in the Telecom sector, approved and issued by the Ministry of Industry and Information Technology on 1 June 2026, with effect from 1 September 2026.

It is administered by the China Communications Standards Association.

Classification: ICS 33.040; CCS M30.

1 Scope

The document specifies the key management technical requirements for quantum key distribution (QKD) networks. It covers the functional architecture model of the key management layer of a QKD network, the network elements and their functional modules, the key management procedures, the key relay scheme, the key file data information, and the security requirements for key management.

It applies to the development and use of key management systems for quantum key distribution networks. Developers and manufacturers of QKD network equipment, network operators and users who run such key management systems may rely on it. The /T in the code marks a voluntary standard. It was approved by the Ministry of Industry and Information Technology, issued on 1 June 2026 and takes effect on 1 September 2026. It is a new standard.