

Price of UK Quantum Communication Intelligent Distribution Frame



AI Overview

Exact pricing for a Quantum Communication Intelligent Distribution Frame in the UK is not publicly listed, but costs are influenced by quantum hardware complexity and supplier specifications.

Market Context Quantum Communication Intelligent Distribution Frames are specialized hardware used in quantum key distribution (QKD) networks to manage secure quantum communications. These frames integrate quantum-capable components such as quantum random number generators, entanglement distribution modules, and AI-driven network management tools. The cost of such hardware is typically the largest component of QKD network deployment, reflecting the advanced technology and low production volumes.

Factors Affecting Price

- Hardware Complexity:** Frames that support entanglement-based QKD, hybrid quantum-classical integration, or post-quantum cryptography are more expensive due to precision engineering and certification requirements.
- Supplier and Manufacturing:** UK suppliers like Norden Communication provide distribution frames, but pricing is often custom-quoted based on configuration, installation, and integration needs.
- Scale of Deployment:** Costs per frame decrease with larger network deployments, but initial prototypes or small-scale installations can be significantly higher.
- Certification and Compliance:** CE certification and compliance with quantum security standards add to the cost, especially for commercial or enterprise-grade systems.

Estimated Cost Range While no public price is available, industry reports suggest that quantum hardware for network operators can run into tens of thousands of pounds per unit, depending on the level of integration and functionality. For enterprise or research-grade frames, prices could range from £20,000 to £100,000 or more per frame, particularly for systems incorporating next...

Article Content

Quantum Communication Market 2024-2034:

This report provides critical market intelligence about quantum communication technology. This includes an overview of the emerging quantum computing to

United Kingdom Quantum Key Distribution System Market: Key

What are the projected environmental and societal impacts of deploying quantum communication infrastructure across the UK, considering recent data on energy consumption, supply

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Quantum Infrastructure Review

This report represents the culmination of an extensive journey of engagement with the UK's quantum community to identify opportunities for infrastructure investments that can unlock transformative

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Reference-frame-independent (RFI) measurement-device-independent (MDI) quantum key distribution (QKD) is immune to all detector side-channel attacks and is insensitive to slow drifts of

Intermediate Distribution Frame Price 2026

This report provides a comprehensive analysis of Intermediate Distribution Frame (IDF) pricing and market trends for 2026, focusing on fiber optic and telecommunications infrastructure.

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The absence of functional quantum repeaters severely constrains the geographic reach and practical deployment of quantum communication networks

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Quantum computing, sensing and communications

The UK invested over £1 billion into quantum technologies to 2024. Between 2012 and 2022, the UK Government estimated that 12% of global private investment in quantum technologies was directed

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Researchers Demonstrate the UK's First Long-Distance Communication

Researchers have successfully demonstrated the UK's first long-distance ultra-secure transfer of data over a quantum communications network, including the UK's first long-distance

The Quantum Communication Hub

The Quantum Communications Hub, funded through the UK National Quantum Technologies Programme, is a major collaboration of university and industrial partners brought together to

Quantum Key Distribution Market Size & Share Analysis

The Quantum Key Distribution market shows moderate concentration as incumbents pursue scale through acquisitions while niche entrants target

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UK project for QKD quantum key distribution receiver

A UK project is developing two different receiver modules for quantum key distribution to reduce the cost of secure quantum networking. The £1.5

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