



Meet the **XGR Series** QKD Platforms



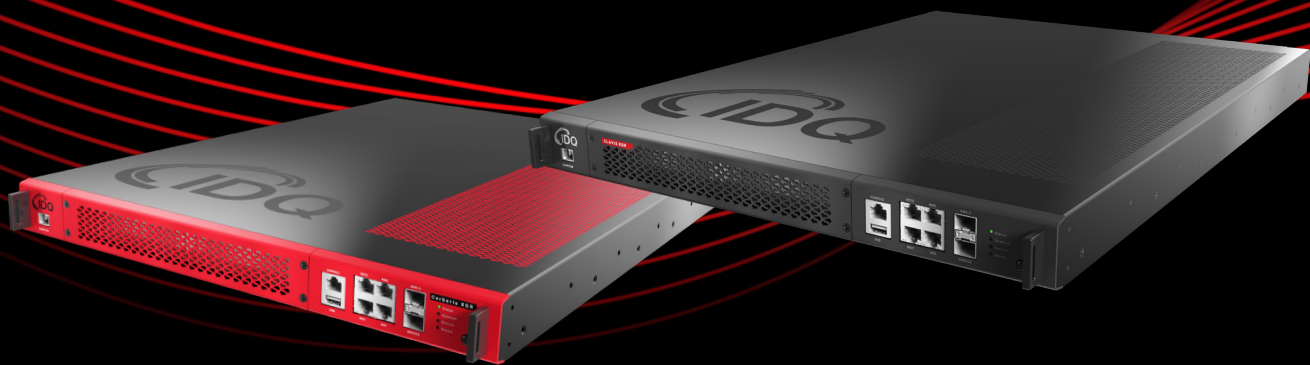
Quantum Key Distribution designed for
Innovation & Technology Evaluation labs

Quantum Key Distribution (QKD)
makes data safe now and in the future.

QKD addresses confidentiality when associated with symmetrical encryption, **enabling unbreakable communications and future-proof data privacy.** It leverages the fundamental principle of quantum physics that observation causes perturbation. This means that if your key is intercepted (by a hacker) as it is transmitted within a communication network, you are alerted to the fact. The corrupted key can then be discarded before it is used to encrypt data. At the end of the day, only valid secure keys are used, which ensures safe encryption and distribution of the data.

QKD is the only known cryptographic technique which provides proven secrecy of encryption keys, as well as long-term data confidentiality and integrity. It also:

- ✓ Secures sensitive data exchanges once and for all
- ✓ Immediately detects eavesdropping
- ✓ Its effectiveness is not impacted by future technological advances
- ✓ Will form the basis of the world's future quantum internet



Timing is everything: where do you stand?

The computing world stands on the threshold of something equally exciting and alarming. The age of the quantum computer is almost upon us, and it is going to radically change the way we think about big data management and security. The Quantum Revolution is predicted to have a greater impact than the internet on all aspects of modern life.

As organizations become increasingly data-rich, cybercriminals are becoming increasingly sophisticated and persistent. Our precious data resources are coming under attack. Quantum technologies are already playing a major role in how we manage and secure this data now and in the future.

The Quantum decade has started, and quantum initiatives are flourishing all over the world. If you haven't started, now is the time to move forward and remain at the forefront of innovation.

| Evaluate how QKD fits into your network

Getting ready requires time and hands-on experience and testing. New technologies can sometimes make us feel apprehensive or seem uneasy: however, when something is coming and the matter isn't an 'if' anymore but a 'when', it's our responsibility to be prepared when the time comes.

We've made it as simple as it can be: with the **XGR Series**, you can start today getting your hands on QKD and familiarize yourself with this technology in your own environment. Your organization can start developing its quantum knowledge and skills, and start thinking about adding its own innovation projects on top of our equipment.



The XGR Series

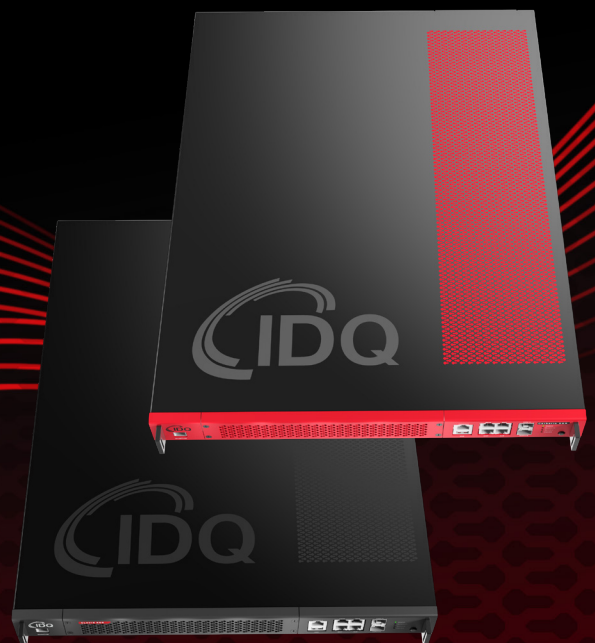
- Open platforms and user-friendly interface for easy evaluation and testing
- Automated and manual operations: experiment with different parameters and study various setups
- Comprehensive software suite with full real-time monitoring and management system

[Learn more >](#)



On-demand services:

- Tailored training
- Product customization
- Quantum risk assessment

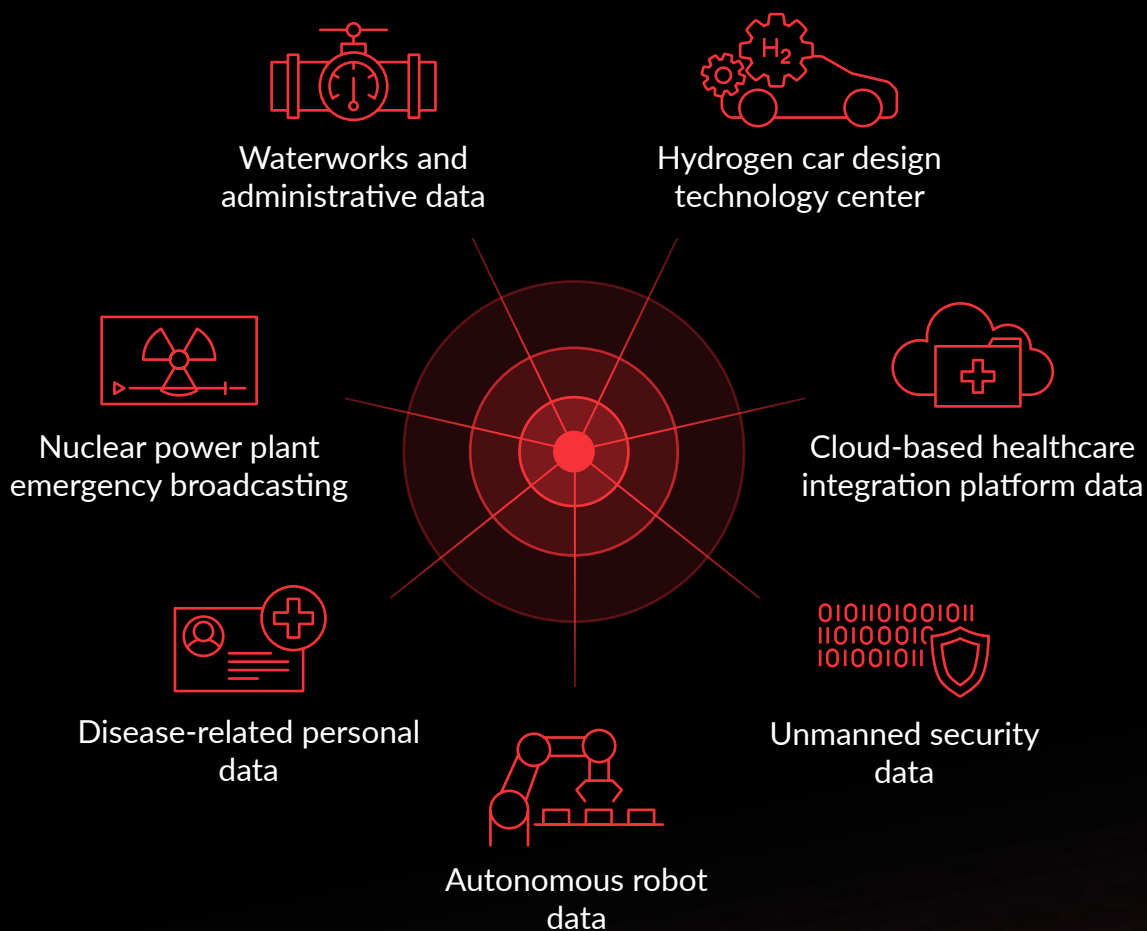




| Trust our 20 years of experience

We have been helping companies to get started with Quantum Cyber Security for 20 years.

Some of the use cases for which QKD is currently tested:



Our XGR Series of QKD platforms for R&D applications is available now - it has been designed for you.

GET STARTED TODAY >

Choose what suits you best: turnkey PoC package, loan, acquisition – **contact us** for more information.

www.idquantique.com