KETS

Securing communications in a quantum world

Kets Quantum Security designs new products to keep communications secure even against the powerful decryption capabilities of a quantum computer. By harnessing the uniqueness of quantum mechanisms, their miniaturized low-footprint silicon chips provide certified truly random numbers and highly secure cryptographic keys for a long-term protection of even the most sensitive data.

https://kets-quantum.co

Key team members

Chris Erven
Founder and CEO
12 years experience in quantum crypto
PhD in Quantum Cryptography

Philip Sibson
Founder and CTO
Lead chip developer
5 years integrated optics
PhD in Physic

Jake Kennard
Founder and Technical Sales
EPSRC Case Award
7 years integrated optics
Phd in Physics

Value Proposition

In the last decades, bad entropy and insecure key management has led to major security breaches resulting in important losses for the industries. Kets answers to the needs of these industries with two fundamental bricks added to their security architecture :

-Quantum Random Number Generator (QRNG) providing genuine high quality entropy for password generation, cybersecurity, statistical simulations and machine learning,

-Quantum Key Distribution (QKD) unit enabling future-proof quantum safe data communications where detection of eavesdroppers is ensured by the laws of Quantum Physics.

Why do we believe in KETS ?

Their low cost, size, weight and power solution combined with flexible deployment make these quantum chips suitable to authenticate and secure data. Even the most challenging environments can be addressed, from communication networks and off-site data centers to mobile embedded devices (IoT) and high altitude platforms, including satellite communications.

Deal summary

ROUND STAGE
SEED

LOCALISATION
UNITED KINGDOM

ROUND SIZE
€2.2M

CLOSING DATE
NOV 2018

Milestones/Roadmap

· Multi-award winning startup exploiting decades of ground-standing research from Bristol's Quantum Engineering Technology Labs,

· InnovateUK grant with Airbus and ID Quantique to secure drone data on an Airbus UAV using high-speed optical links and QKD-secured encryption.

· QRNG USB stick and QKD Development Kit for late 2019, Plug&Play QKD System for 2020, QKD miniaturized packaging for 2021.

Deep Physics

Quantum Cybersecurity

Quantum Computing

Quantum Sensing

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