ID Quantique launches an ultra-small Quantum Random Number Generator (QRNG) chip for mobile, IoT and edge applications

ID Quantique's Quantis QRNG chip (IDQ250C2) is low profile, small footprint, and now makes our connected world more secure.

GENEVA, SWITZERLAND, March 27, 2020 /EINPresswire.com/ -- ID Quantique (IDQ), the world leader in quantum-safe security solutions, today announced its newest [Quantum Random Number Generator (QRNG) chip](#) developed to secure mobile, IoT and edge applications. It is ideal for applications, where compact size and low power consumption are critical

In the hyper-connected 5G era where 43 billion devices are expected to be connected through wireless networks in 2026 [1], the importance of cybersecurity to the edge rises exponentially.

> With its compact size and low power consumption, our latest QRNG chip can be embedded in any smartphone, edge and IoT devices, to ensure trusted authentication and encryption of sensitive information."
>
> *Grégoire Ribordy, co-founder and CEO of ID Quantique*

Mobile applications today require the collection and transmission of more and more sensitive data including financial, health, business and personal information. IoT and edge devices are now connecting home, hospitals, factories, infrastructure, schools and shopping locations, raising the need for security to the edge.

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Generating strong keys from a reliable entropy source is the cornerstone of any security system. Quantis QRNG chip (IDQ250C2) is the first Quantum Random Number Generator, designed and manufactured specifically for mobile handsets, IoT and edge devices. It generates provably unbiased and unpredictable randomness with high entropy from the very first bit from the shot noise of a light source captured by a CMOS image sensor, a patented quantum technology from ID Quantique.

"With its compact size and low power consumption, our latest Quantis QRNG chip can be embedded in any smartphone, edge and IoT devices, to ensure trusted authentication and encryption of sensitive information." said Grégoire Ribordy, CEO and co-founder of ID Quantique. "Using a Quantum Random Generator at the edge is a first step to make wireless and IoT ecosystems quantum-safe and prepare for the quantum computing age. Securing smartphones and IoT devices is a top priority for many manufacturers."

ID Quantique was the first company to develop a quantum random number generator (QRNG) in 2001 and it remains the market leader in terms of reliability and certifications, with its Quantis QRNG product family. It is actively developing new QRNG products for its customers in various fields like automobile, consumer electronics, computer and mobile, financial and security markets.

Visit the Quantis QRNG Chip page

[1] based on data by market research firm Gartner about expected number of connected devices in 2026

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