



Press Release

Geneva, June 12th, 2023

SK Telecom and Samsung unveil the Galaxy Quantum 4, providing more safety and performance with IDQ's QRNG chip

ID Quantique (IDQ), the world leader in quantum-safe security solutions, SK Telecom and Samsung Electronics, have worked together to release the 'Galaxy Quantum 4', the fourth Samsung smartphone equipped with quantum technology, designed to protect customers' information.

With features matching those of Samsung's flagship smartphones of the S23 series – i.e. waterdrop camera with image stabilization (OIS) and nightography (night low light shooting), rear glass design, large capacity battery – along with strengthened quantum-safe technology, the Galaxy Quantum 4 will be a new choice for customers who value both high performance and security.

Like its predecessor, the [Galaxy Quantum 4](#) is equipped with the world's smallest (width 2.5 x length 2.5 mm) Quantum Random Number Generator (QRNG) chipset designed by ID Quantique, enabling trusted authentication and encryption of information. It allows smartphone holders to use an even wider number of applications and services in a safer and more secure manner by generating unpredictable true random numbers.

IDQ's [QRNG chip](#) enhances the security of a very large number of services provided by the operator. QRNG protects the process from log-in/authentication/payment/unlock/OTP generation of service apps ranging from financial apps to social media apps and games offering a much higher level of trust to the users.

As an example, when an application provides authentication services, sensitive data such as fingerprints and facial images must be protected. Our QRNG embedded in this new smartphone can therefore be leveraged to generate encryption keys and, in conjunction with the keystore of the terminal, provide quantum-enhanced security every time a user logs in to the app. The QRNG is also used to encrypt data stored in the external memory card.

As the previous version, the 'Galaxy Quantum 4' offers a differentiated security experience to customers by providing a 'quantum indicator' on the status bar so that customers can realize that they are using a quantum security service. Its price point is comparable to previous versions, but with increased performance and security.

"Protecting one's private data is a priority for users. The Galaxy Quantum 4 is the latest in the Quantum series, which offers strong quantum security and premium performance. As a leading player in this area, we will continue to expand the use of quantum cryptography technology to provide users with greater security and safety," said **Moon Kab-in, Vice President and Head of Smart Device Center at SKT.**

"Mobile phone users don't want to get their data stolen. The Galaxy Quantum 4 includes top performances and more quantum-secured applications than ever before, bringing applications and services to a new level of security in the mobile phone industry" said **Grégoire Ribordy, CEO and co-founder of ID Quantique.**

About ID Quantique

Founded in 2001 as a spin-off of the Group of Applied Physics of the University of Geneva, ID Quantique is the world leader in quantum-safe crypto solutions, designed to protect data for the future. The company provides quantum-safe network encryption, secure quantum key generation and Quantum Key Distribution solutions and services to the financial industry, enterprises and government organizations globally. IDQ's quantum random number generator has been validated according to global standards and independent agencies, and is the reference in highly regulated and mission critical industries – such as security, encryption, critical infrastructure and IoT – where trust is paramount.

Additionally, IDQ is a leading provider of optical instrumentation products, most notably photon counters and related electronics. The company's innovative photonic solutions are used in both commercial and research applications. IDQ's products are used by government, enterprise and academic customers in more than 60 countries and on every continent. IDQ is proud of its independence and neutrality, and believes in establishing long-term and trusted relationships with its customers and partners.

For more information visit www.idquantique.com.

Contact info:

Catherine Simondi – VP Marketing & Communications
catherine.simondi@idquantique.com or +41 (0) 22 301 83 71

About SK Telecom

SK Telecom has been leading the growth of the mobile industry since 1984. Now, it is taking customer experience to new heights by extending beyond connectivity. By placing AI at the core of its business, SK Telecom is rapidly transforming into an AI company. It is focusing on driving innovations in areas of telecommunications, media, AI, metaverse, cloud and connected intelligence to deliver greater value for both individuals and enterprises.

For more information, please contact skt_press@sk.com, visit our [LinkedIn page](#) or [our website](#).