



Qtropy

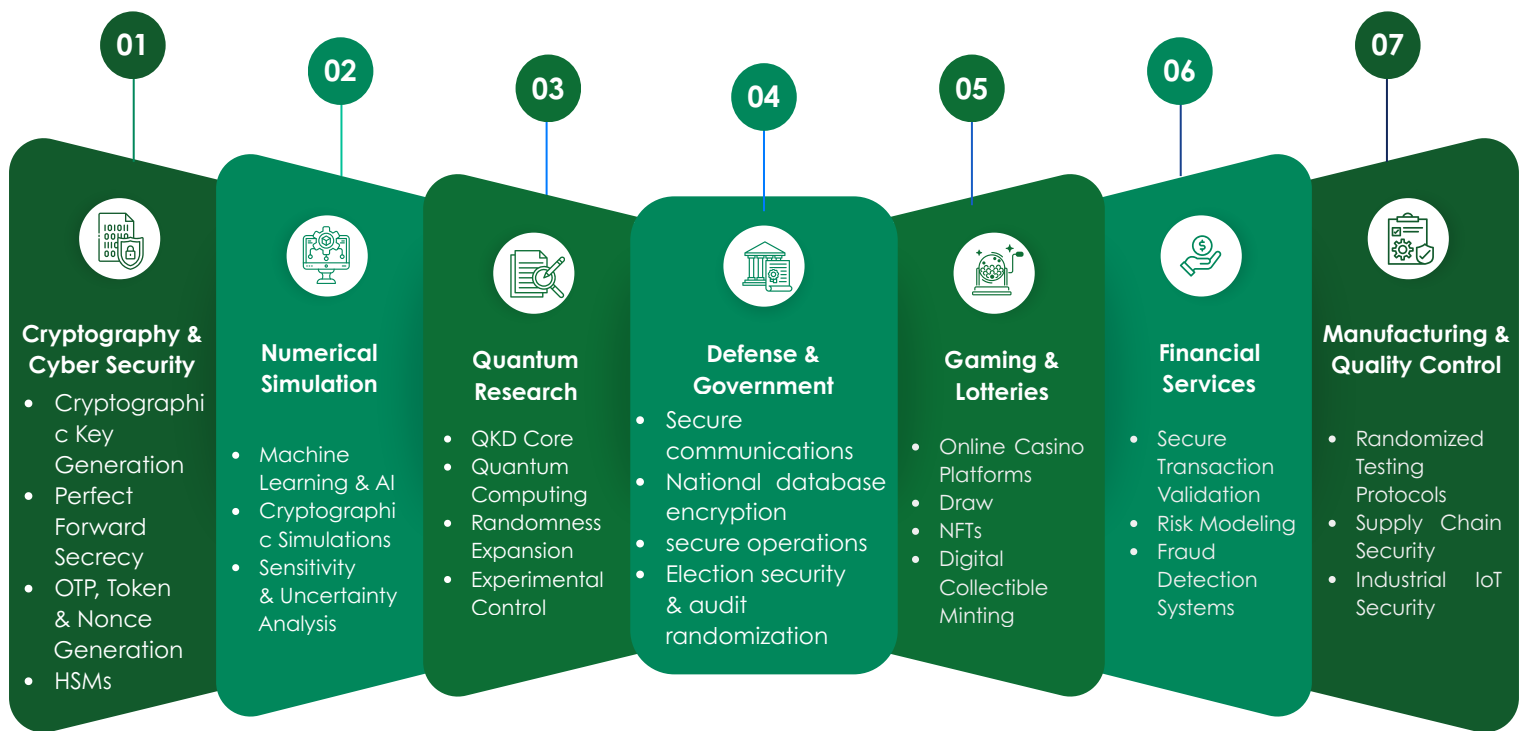
Don't Wait For Encryption To Fail



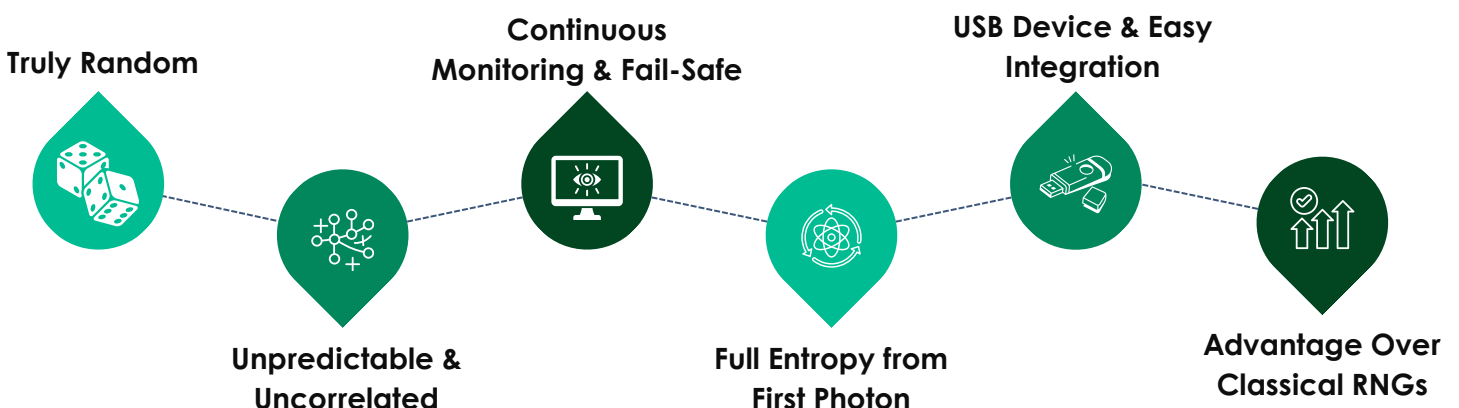
Qtropy USB harnesses the fundamental unpredictability of quantum mechanics to generate truly random numbers, unlike algorithm-based generators. It delivers guaranteed, full-entropy randomness instantly, features continuous self-monitoring for fail-safe operation, and offers simple plug-and-play integration across all major operating systems.

Where Quantum Randomness Matters

Critical applications across industries



Core Features





Specifications

True Quantum Randomness	Generates randomness from quantum fluctuations ensuring inherent unpredictability and non-repeatability.
Compliance with globally trusted security standards:	NIST Entropy Source Validation (ESV) certified on IID SP 800-90B, NIST SP 800-22, BSI AIS 31
High Data Output for Real-Time Security Applications	• 5.88 Mbps quantum noise sampling • 1.47 Mbps true random number output
Plug-and-Play USB Design for Instant Deployment	Requires no external power source. USB-powered, portable, and universally compatible with laptops, servers, embedded systems, etc.
Ultra-Portable, Rugged, Metallic Casing	Pocket-sized, weighing less than 0.3 kg device with a hard metallic shell engineered for field use, mobility, and long-term durability.
Secure Hardware Root for Cryptosystems	Acts as a dedicated high-entropy source, the first building block of secure cryptographic systems, enhancing key generation and reducing attack surfaces.
Reliable Performance across Wide Temperature Ranges	Designed for real-world operational conditions with stable performance between 0°C to 40°C and storage capability up to 60°C.
Ideal for High-Security and National-Grade Use Cases	Perfect for government, defense, telecom, banking, cloud, and secure communication environments needing quantum-grade entropy
Indigenous Quantum Hardware Engineered in Pakistan	Local innovation ensures superior support, controlled supply chain, and compliance with national cybersecurity and sovereignty requirements.
Minimum Entropy per Bit	0.997



Stay Connected



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