



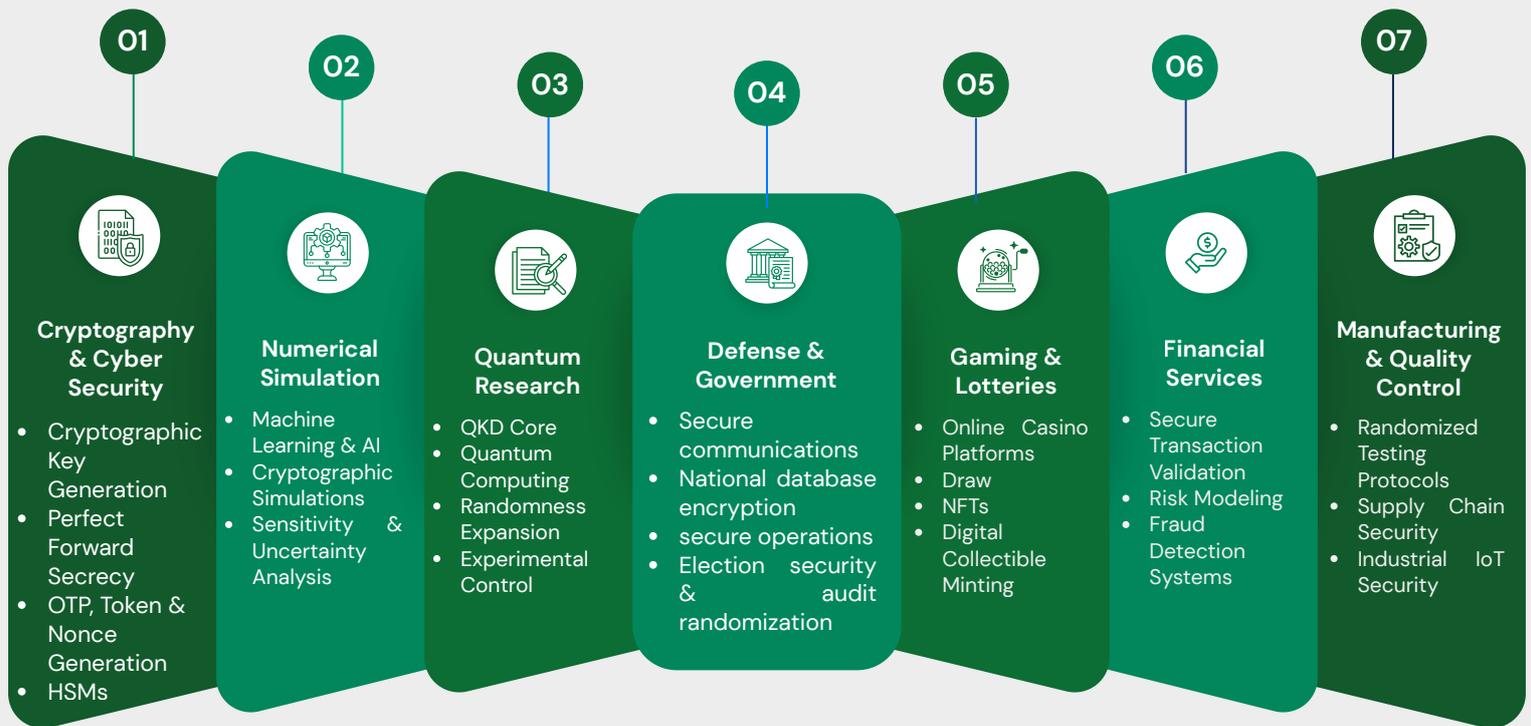
# Qtropy



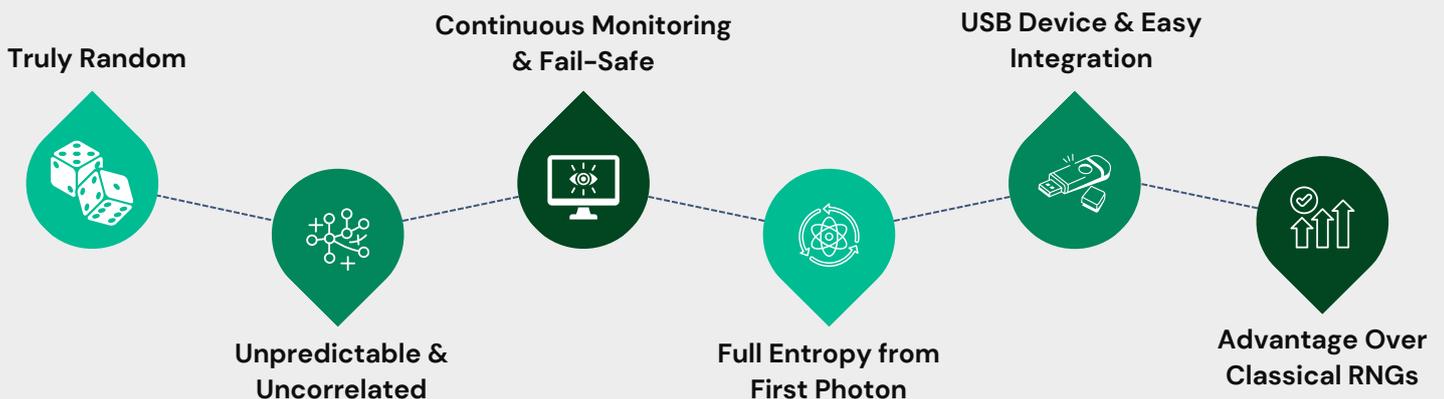
Qtropy USB harnesses the fundamental unpredictability of quantum mechanics to generate truly random numbers, unlike algorithm-based generators. It delivers guaranteed, full-entropy randomness instantly, features continuous self-monitoring for fail-safe operation, and offers simple plug-and-play integration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

## Where Quantum Randomness Matters

Critical applications across industries



## Core Features





## Specifications

<b>True Quantum Randomness</b>	Generates randomness from quantum fluctuations ensuring inherent unpredictability and non-repeatability.
<b>NIST 800-90A/B/C Compliant for Cryptographic Assurance</b>	Meets globally trusted security standards, guaranteeing that randomness is suitable for high-security encryption and key generation.
<b>High Data Output for Real-Time Security Applications</b>	<ul style="list-style-type: none"> <li>• 5.88 Mbps quantum noise sampling</li> <li>• 1.47 Mbps true random number output</li> </ul>
<b>Plug-and-Play USB Design for Instant Deployment</b>	Requires no external power source. USB-powered, portable, and universally compatible with laptops, servers, embedded systems, etc.
<b>Ultra-Portable, Rugged, Metallic Casing</b>	Pocket-sized, weighing less than 0.3 kg device with a hard metallic shell engineered for field use, mobility, and long-term durability.
<b>Secure Hardware Root for Cryptosystems</b>	Acts as a dedicated high-entropy source, the first building block of secure cryptographic systems, enhancing key generation and reducing attack surfaces.
<b>Reliable Performance across Wide Temperature Ranges</b>	Designed for real-world operational conditions with stable performance between 0°C to 40°C and storage capability up to 60°C.
<b>Ideal for High-Security and National-Grade Use Cases</b>	Perfect for government, defense, telecom, banking, cloud, and secure communication environments needing quantum-grade entropy
<b>Indigenous Quantum Hardware Engineered in Pakistan</b>	Local innovation ensures superior support, controlled supply chain, and compliance with national cybersecurity and sovereignty requirements.
<b>Minimum Entropy per Bit</b>	0.997

## DON'T WAIT FOR ENCRYPTION TO FAIL



## Stay Connected

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