Qrypt

Qrypt Security

Use Case	Name (Product?)	What is it?	Security	Crypto Agility – Levels of Security Good Security > Better Security > Best Security		
				Quantum Enhanced	Post-Quantum Resistant	Everlasting Security™
Quantum random	qRandom api	Quantum entropy dowloaded using REST	Best entropy	✓	✓	✓
	qRandom Injector	Quantum entropy injected to device from random pool	Best entropy	✓	✓	✓
Quantum enhanced keys	digital QKD (dQKD)	Provably secure simultaneous key generation from qRandom	Best entropy Best key “distribution”	—	✓	✓
Storing encrypted files	Qrypt-AES	Today’s standard AES file encryption from qRandom	Best entropy Good local encryption	✓	✓	✓
	Qrypt-OTP	Tomorrow’s provably secure OTP file encryption from qRandom	Best entropy Best local encryption	—	✓	✓
Sharing encrypted files	Qrypt-OTP for airgap	Qrypt-OTP on disconnected devices	Best entropy Best disconnected shared-file encryption	—	✓	✓
	dQKD+Qrypt-AES	dQKD with standard AES file encryption	Best entropy Best key distribution Good shared-file encryption	—	✓	✓
	dQKD+Qrypt-OTP	dQKD with provably secure OTP file encryption	Best entropy Best key distribution Best shared-file encryption	—	—	✓
Ongoing end-to-end encrypted sharing	Qrypt Messaging-Classical	Today’s standard TLS file encryption from qRandom	Best entropy Vulnerable message encryption	✓	✓	✓
	Qrypt Messaging-PQ	Quantum resistant encryption (Kyber) for messaging	Best entropy good message encryption	—	✓	✓
	Qrypt Messaging-PQ+	Quantum resistant encryption (FrodoKEM) for messaging	Best entropy Better message encryption	—	✓	✓
	Qrypt Messaging-OTP	Provably secure ecryption for messaging	Best entropy Best message encryption	—	—	✓