

QiSpace™ PQC for IoT

The Quantum Threat to IoT

Advancements in Quantum Computing are accelerating, making its prospect of breaking classical cryptography more real with every passing day. At the same time, many critical components of today’s digital societies and economies rely on IoT and connected devices. With millions of new IoT devices coming online daily, and their functions becoming more mission critical, it is important to ensure embedded applications and data are quantum-secure.

A Complete Quantum Security Toolkit for Embedded Systems

QiSpace™ PQC for IoT provides an SDK with a complete set of cryptographic capabilities to harden security for systems and applications on major embedded platforms. It includes post-quantum asymmetric and symmetric cryptographic functions and strong random numbers in a modular package delivering maximum flexibility for adding quantum security to embedded systems and applications.

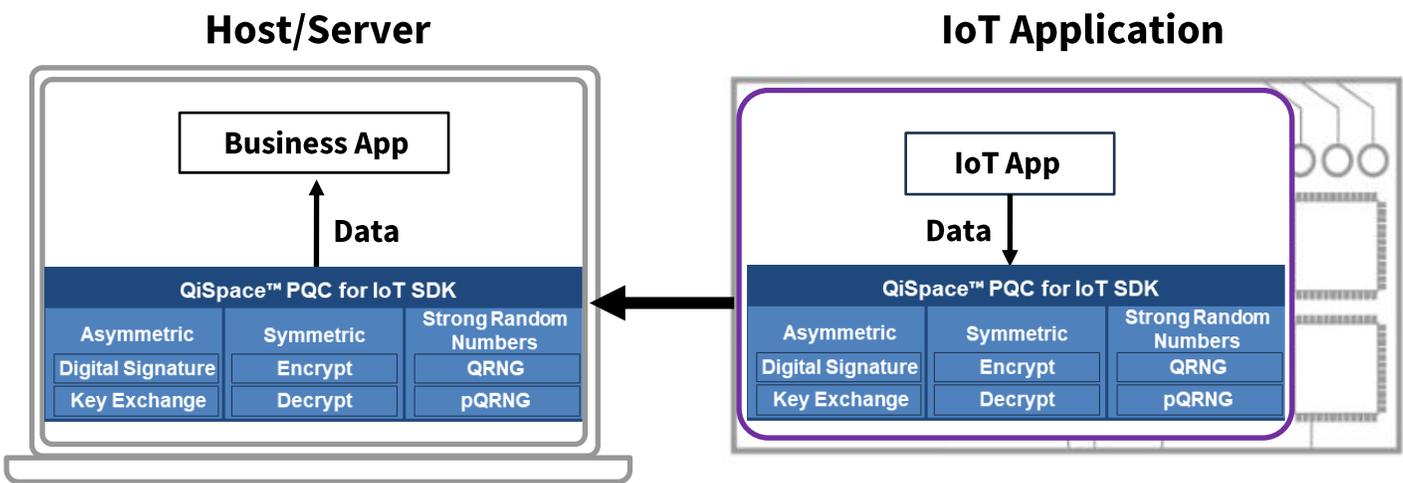
QiSpace™ PQC for IoT is available in a Baseline or Premium package.

The Baseline package includes:

- NIST PQC standards
- Classic/PQC hybrids

The Premium packages includes all features of Baseline and adds:

- Quantropi novel PQC
- Quantropi novel PQC hybrids
- Quantropi novel symmetric algorithm
- Strong entropy generation



QiSpace™ for IoT Solution Family Pricing

QiSpace™ PQC for IoT	Baseline			Premium		
	Dev	Standard	Enterprise	Dev	Standard	Enterprise
Subscription	\$7.5K / year	\$10K / year	\$30K / year	\$7.5K / year	\$20K / year	\$40K / year
Secure Boot Add-on	\$7.5K / year	\$10K / year	\$10K / year	\$7.5K / year	\$15K / year	\$15K / year
Secure Network Add-on	\$7.5K / year	\$10K / year	\$10K / year	\$7.5K / year	\$15K / year	\$15K / year
NIST FIPS 203 / 204	●	●	●	●	●	●
Novel GHPPK / HPPK	○	○	○	●	●	●
Source Code Included	○	○	○	●	●	●
# Support Incidents included	5	10	Unlimited	5	25	Unlimited
Standard Email Support	●	●	●	●	●	●
Live Call Support	○	○	●	○	●	●
24/7/365 Support	○	○	●	○	○	●

Performance Advantage for Novel Algorithms

- ✓ Quantropi’s novel key exchange (HPPK-KEM) is specifically optimized for IoT solutions with an efficient 208-byte ciphertext size and ~8K of memory utilization at NIST L5.
- ✓ Quantropi’s novel digital signature (GHPPK-DS) is specifically optimized for IoT solutions with an efficient 272-byte signature size and less than 11K of memory utilization at NIST L5.

Support for leading MCU Platforms

QiSpace™ for IoT supports chipsets from leading vendors ranging from high-performance down to ultra-low-power MCUs. Current supported chipsets are listed below:



- STM32 Cortex M Series MCU
- STM32 Cortex M Series MPU
- Legacy Arm Processors
- SPC5 32-bit Automotive
- Stellar 32-bit Automotive



- RA Cortex M Series MCU
- RL Low Power Series
- RX 32-bit
- RZ 32/64-bit Multicore MPUs
- RH850 Automotive Series MCUs
- RISC-V Processors



- PIC32 Cortex M Series MCU
- SAM Cortex M Series MCU
- Legacy Arm Processors
- RISC-V Processors
- AVR32

Support for additional MCU manufacturers and chipsets available. Contact sales for details.

Contact Us:

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www.quantropi.com

Try QiSpace™
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