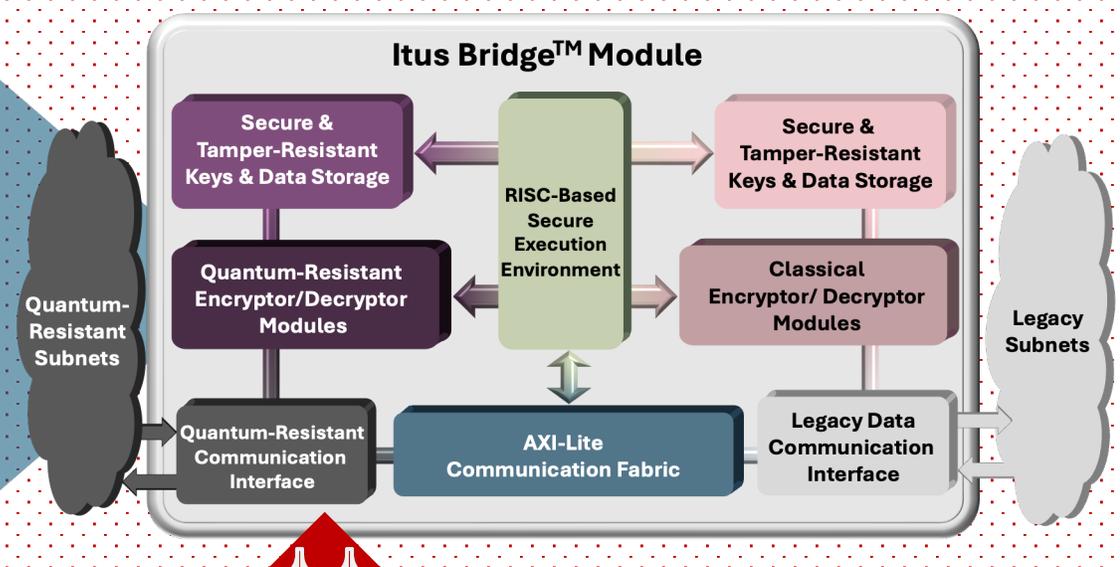
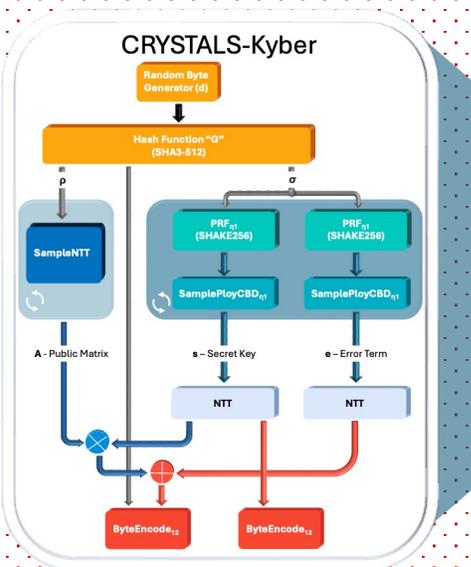


- Programmable PQC-HSM Architecture
- Dual-Stack Cryptographic Support
- Secure Enclave-Based Translation
- Real-Time Traffic Classification & Routing

Quantum computing is breaking legacy encryption. Itus Bridge™ enables a smooth shift to PQC by letting quantum-resistant and classical cryptography run in parallel, ensuring secure, phased migration with no operational disruption.



### Key Capabilities

- Dual-Domain Crypto Engine: Classical (RSA, ECC, AES-GCM) + PQC (Kyber, Dilithium).
- PQC-Optimized HSM: Isolated domains connected through a secure RISC-based enclave.
- Dynamic Key Translation: Real-time negotiation between classical and PQC traffic.
- Hardware Acceleration: Tuned for PQC polynomial and scalar math.
- Secure Enclave Execution: Tamper-resistant cryptographic processing.
- Real-Time Traffic Intelligence: Routes mixed PQC/classical traffic at edge or core.

### Deployment Use Cases

- Defense & Aerospace - Critical Infrastructure & SCADA - Zero Trust & Secure Cloud - Embedded and Tactical Systems

### Why It Matters

- Enables a safe, staged PQC transition.
- First known platform to run classical + PQC encryption simultaneously.
- Supports DoD Zero Trust and CMMC 2.0 modernization paths.



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