

AetherGuard BioCore — Executive Brief

Application No: 63/893,463

Filing Date: 10/03/2025

Executive Summary

A hybrid post-quantum endpoint architecture combining ML-KEM, X25519, AES-GCM, layered assurance, and self-healing maintenance mechanisms.

Key Innovations

- Hybrid PQC handshake (ML-KEM + X25519)
- Self-healing cryptographic maintenance processes
- Layered assurance with zero-downtime update framework

Advantages

- Quantum-secure endpoint protection
- High reliability with rollback-safe updates
- Adaptive integrity verification

Applications

- Home and enterprise endpoint security
- Field operations
- Critical infrastructure environments