

Phase 2: Performance Summary Table

Platform	Classic (μs)	PQ (μs)	Overhead	Source
Intel x86 (Tor)	100-150	650.0	4.3-6.5×	arXiv 2025/479
Hardware Research	20-30	100-200	3.3-10.0×	Hardware Impl.
Raspberry Pi 4	60-100	263.0	2.6-4.4×	MDPI 2023
Phytium Pi (Ours)	60-100	181.6	1.8-3.0×	This Work