

Tzimtzum / NovaKey

Authentication intended to reduce disclosure of personal information.

Prototype with simulation · Filing not verified

Buyer need

Identity-management teams need privacy-preserving authentication using physical hardware.

Available evidence

Source code and a specification exist; the cryptographic proof is simulated.

What remains to be demonstrated

A real cryptographic implementation, security review and hardware validation.

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Market and alternatives

Semaphore already provides Merkle-set membership and nullifiers. Secure DESFire NFC products also exist.

Potential buyers

Identity providers and hardware-token integrators

Next fundable milestone

Obtain a cryptographic review followed by a verified hardware prototype.

Decision criterion

Proceed with research validation. The current prototype is not suitable for production authentication.



Proposed decision path; no stage is assumed to be complete.

Targeted, non-exhaustive research. Commercial conclusions are hypotheses. These sources establish no acquisition interest in DreamNova.

Validation budget

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\$20,525 – \$45,612

30 to 60 days, initial feasibility

Planning assumptions, not quotations or valuations. The bounds are two spending scenarios, not a statistical confidence interval. Further investment depends on milestone results.

Engineering

Low scenario	\$12,315
High scenario	\$29,648

Computing, hardware or external laboratory

Low scenario	\$6,500
High scenario	\$12,543

Preliminary IP review

Low scenario	\$1,710
High scenario	\$3,421

Planning assumption, not a quotation or an asset valuation. Includes preliminary IP review; excludes drafting and filing, a full freedom-to-operate assessment, tax, industrialisation and regulatory studies. Deduct any services that overlap with a future filing quotation.

Public sources

[Semaphore — zero-knowledge protocol](#)

[NXP — DESFire EV3](#)

Planning amounts are expressed in US dollars using the ECB reference rates dated 25 September 2026. These are indicative conversions, not bank transaction rates or supplier quotations.

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