
Centronium Litepaper

The First AI-Native Blockchain — A Condensed Overview

What is Centronium?

Centronium is a purpose-built blockchain that eliminates the need for energy-intensive mining hardware. Instead of proof-of-work puzzles, blocks are verified through Ed25519 cryptographic signatures from a distributed network of validators. Every user who creates an account automatically becomes a validator, making the network more secure with every signup.

How It Works

Centronium (Layer 1) produces blocks. **CentroShield** (Layer 2) coordinates independent validators to cryptographically sign each block. Once 75% of validators approve, the block is finalized. No single entity can forge transactions — trust is mathematically distributed.

Why It Matters

	Traditional Blockchain	Centronium
Mining Hardware	Required (\$2K-\$10K+)	None
Electricity Cost	\$100-\$500/month	\$0
Entry Barrier	High	Create an account
Environmental Impact	Massive	Near zero
Security Model	Hash rate (51% attack)	3/4 quorum (75% needed)

Tokenomics

CENTRO token starts at 38 per block, halving every ~1M blocks across 10 halvings, settling into a perpetual tail emission of 7.655 CENTRO/block. Supply is capped at 100M per era. Transaction fees are 0.1% of the transfer amount.

The Ecosystem

CENTRO Wallet — Send, receive, and manage tokens from any device. **Mining Pools** — Earn CENTRO rewards with zero hardware. **CentroScan** — Full block explorer with transaction transparency. **CentroSwap** — Token exchange. **Partner API** — Secure third-party integrations with scoped access.

[Read the full whitepaper at centronium.com/codex](https://centronium.com/codex)