Tantin Chain

The No.1 Super Traffic Public Chain,
A Never-Congested Web3 Hub

Tantin Chain - Traffic Engine

01
Introduction

01 Tantin Chain Introduction

Tantin Chain is a next-generation public chain designed for massive users and high-frequency interactions. Positioned as a "traffic engine," it redefines blockchain scalability.

Through its proprietary dynamic sharding technology and intelligent resource allocation system, the chain's processing capacity scales in real-time with traffic growth. Tested to handle tens of thousands of transactions per second (TPS) with 3-second finality, it aims to resolve the congestion and high latency plaguing traditional chains. Full nodes secure the network, while light nodes enable millisecond-level verification.

The AI-powered resource scheduler dynamically allocates computing power—equipping blockchain with a "traffic navigation system" to ensure seamless data flow.

01 Tantin Chain Introduction

Tantin Chain is building a self-reinforcing flywheel:

More users → Higher on-chain activity → More token burns → Stronger value foundation → More developers → More users.
For the first time, blockchain truly matches internet-scale traffic, enabling Web3 to serve billions.

Tantin Chain provides developers with high-performance, low-cost blockchain infrastructure to drive decentralized applications (dApps) and digital assets.
Developers can migrate to Tantin Chain with minimal effort, tapping into millions of EVM-compatible users.

02

Core Architecture Design

Blockchain Foundation

Consensus Mechanism

A Proof-of-Stake Authority (PoSA) variant ensures an average block time of 3 seconds, supporting tens of thousands of TPS. Low transaction costs make it ideal for micropayments and batch transactions. Full EVM compatibility allows Ethereum developers to migrate dApps seamlessly.

Network Positioning

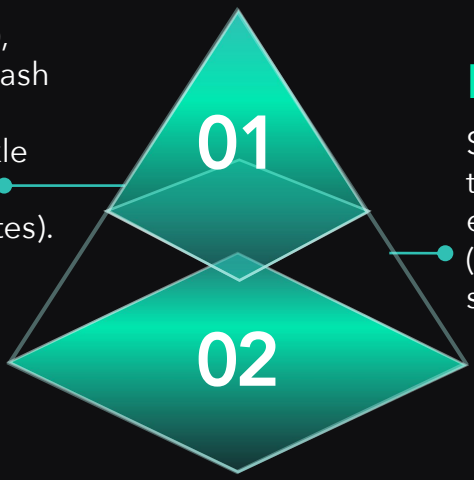
Layer 1 public chain with independent full-node consensus validation.

Data Structure & Performance

Block Structure

Block Header:

Version (4 bytes), previous block hash (32 bytes), transaction Merkle root (32 bytes), timestamp (8 bytes).



Block Body:

Stores raw transaction data in execution order (max 4MB block size).

Throughput:

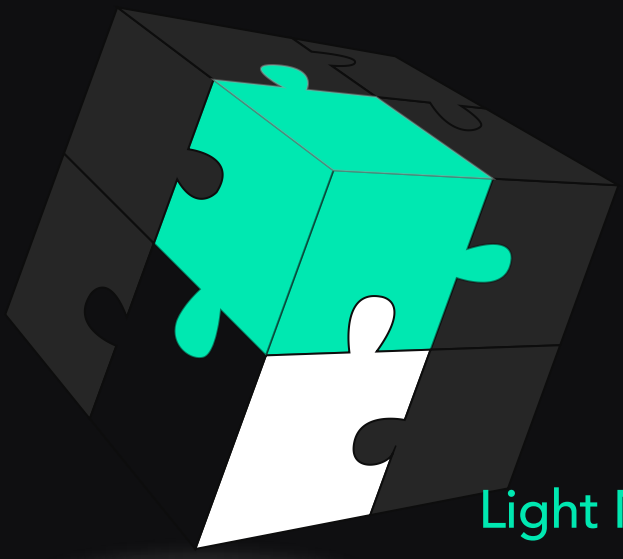
Mainnet-tested for tens of thousands of TPS with 3-second finality (mixed transaction types).

Nodes & Storage

Full Nodes

Full Storage: Complete blockchain data (headers + transaction bodies).

Functions: Independent transaction validation, consensus participation, and light node query services.



Light Nodes

Storage: Block headers + critical transaction indices (<5% of full node storage).

Protocol: Requests specific transaction validation via Merkle proofs from full nodes.

03

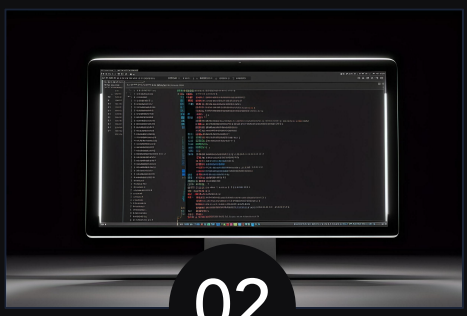
Smart Contracts & Developer Support

03 Tantin Chain
Smart Contracts & Developer Support

Smart Contract Platform

Virtual Machine

Fully EVM-compatible.
(ETH Virtual Machine)



Language

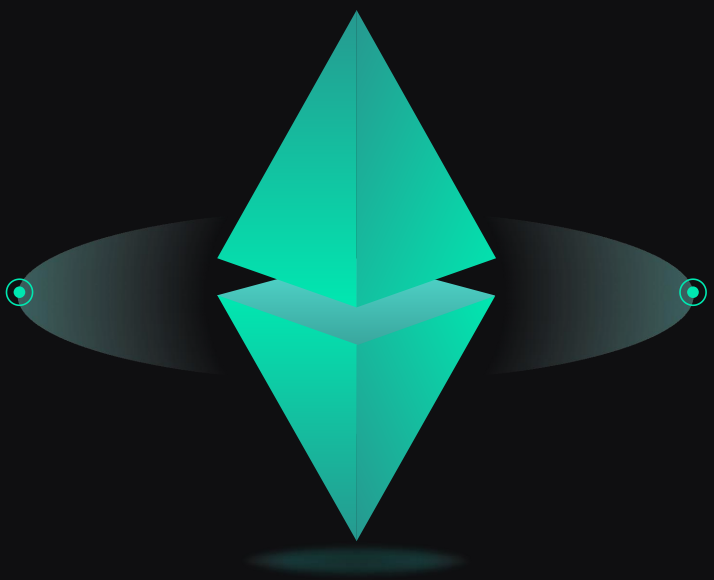
Solidity (supports compilers ≥v0.4.24).

Tools

Integrated Remix IDE plugin for rapid testnet deployment.

Cross-Chain Compatibility

EVM Equivalence: Compatible with Ethereum RPC interfaces (e.g., eth_call, eth_sendRawTransaction).
Wallet Integration: Supports MetaMask and others.

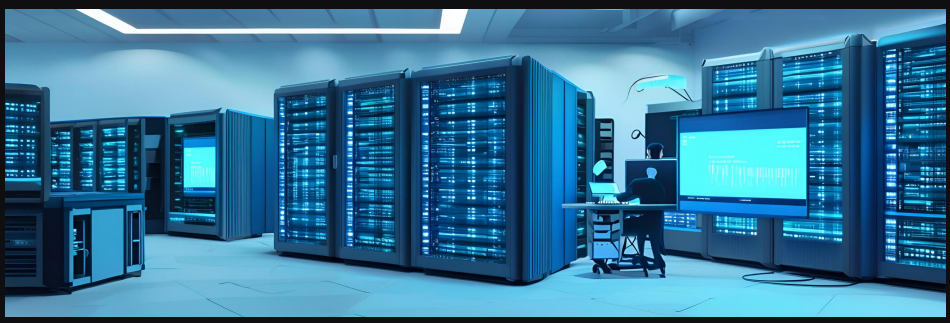


Cross-Chain Bridges:
ERC-20 assets can be migrated 1:1 via bridge contracts.

04

Node Network Features

Node Deployment



Hardware Requirements

Full Node: 4-core CPU, 8GB RAM, 500GB SSD (annual block data growth ≈120GB).

Light Node: Runs on Raspberry Pi 4B-level devices.

Node Incentives

Fee Distribution: 80% of transaction gas fees are used to buy back and burn CTC tokens.

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Core Architecture:

Modularity & AI-Driven Optimization

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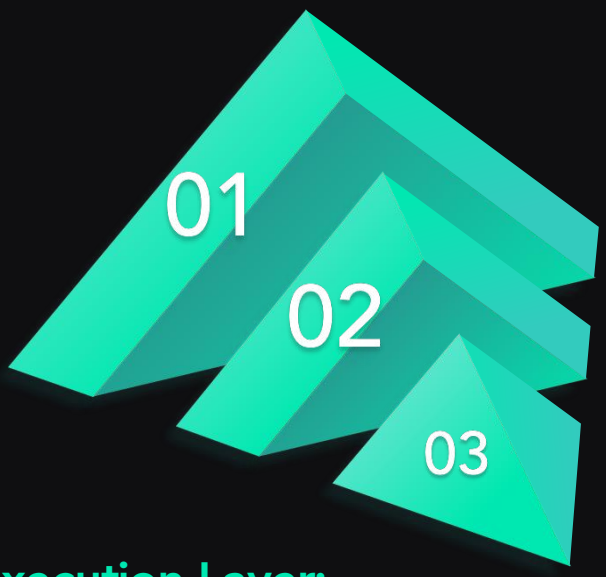
Modularity & AI-Driven Optimization

Three-Layer Modular Design



01.Execution Layer:
Supports parallel VMs (EVM, MoveVM, WASM). Developers can migrate existing dApps with minimal code changes.

02.Consensus Layer:
Dynamic Hybrid Consensus—PoS for daily transactions, Proof-of-History (PoH) for governance votes, with AI adjusting node incentives.

03.Data Availability Layer:
Integrates decentralized storage (only hashes stored on-chain, reducing full-node storage costs by 90%).

AI-Native Optimization

Dynamic Gas Pricing:

AI adjusts fees based on network congestion and transaction type (DeFi/NFT/gaming), avoiding spikes like Ethereum's NFT minting frenzies.

Resource Scheduling:

AI predicts high-traffic periods to pre-allocate computational resources.

06

User Experience Revolution:

Chain Abstraction & Socialized Entry

Chain Abstraction Layer

Unified Account

One wallet address for all connected chains (like Web2 single sign-on), with cross-chain gas auto-settlement.

Zero-Knowledge Security

Default zk-SNARKs for privacy (amounts/addresses hidden). Compliance modules (e.g., KYC) configurable for enterprises.

06 User Experience Revolution:
Chain Abstraction & Socialized Entry

Gamified Traffic Entry

SocialFi Integration

Twitter/Telegram plugins let users sign transactions and vote in DAOs directly on social platforms.

On-Chain Achievement Economy

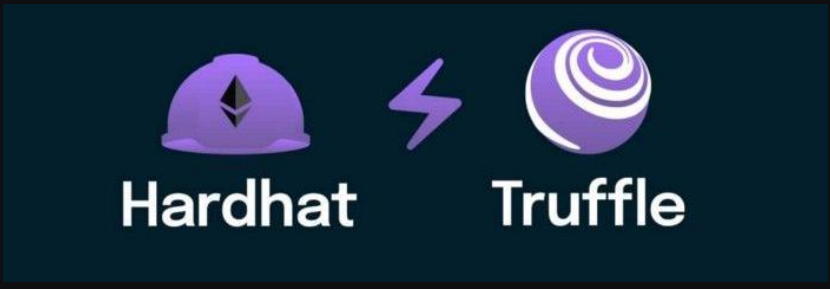
dApp growth metrics (DAU, volume) auto-convert to token rewards, forming a "user-developer-chain" flywheel.

07

Developer Ecosystem:

Low Migration Cost & Modular Factories

Compatibility as a Service



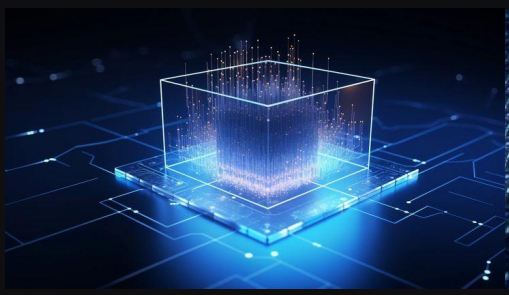
EVM++ Sandbox

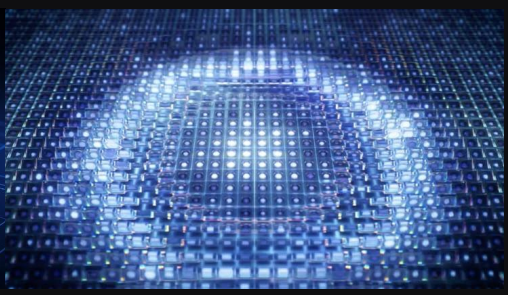
Direct deployment via Ethereum tools (Hardhat, Truffle).

Cross-Chain Liquidity Bridges

One-click asset bridging solves cold-start challenges.

Revenue Enhancement





Developer Pool

80% of gas fees burned to buy back tokens.

Traffic Sharing

Top dApps refer users to new apps, earning token incentives based on conversions.

Tantin Chain’s core advantage lies in lowering barriers for developers and users, modularity for diverse needs, and chain abstraction to break ecosystem silos. Instead of competing with Ethereum on ecosystem density or Solana on TPS, it redefines competition—shifting from "tech spec wars" to "experience and cost revolution."

Deep Dive Tantin Chain

"Packing Ethereum's ecosystem depth, Solana's transaction speed, Cosmos' interoperability, and ChatGPT's user-friendliness into a single chain, all while delivering a TikTok-like smooth experience."

3 Straightforward Comparisons

That Show Why TT Chain Dominates Existing Public Blockchains

01 For Developers: "Even Copying Homework Earns Money"

Comparison	Ethereum	Solana	TT Chain
Migration Cost	Rewriting contracts + gas spikes	Switching to Rust	**Code reuse, near-zero migration cost**
Earning Speed	Waiting for users to find your dApp	Battling bots for priority	**Auto-traffic + revenue sharing**
Anti-Fraud Guide	Hiring auditors	Praying to avoid flash-loan attacks	**24/7 AI-powered security**

02 For Users: "Even Novices Master Web3"

Pain Point	Existing Chains	TT Chain Solution
Gas Fees	NFT fees > NFT prices	**Gas fees crushed to the floor**
Cross-Chain UX	Manual chain-switching like airport transfers	**Auto-routing smoother than ordering takeout**
Privacy	Address exposed = hack waiting	**Enable "Stealth Mode"**

03 For Capital: "Precision in Every Dollar"

Anxiety	Traditional Chains	TT Chain
User Retention	Players cash out and leave	**Gamified tools make users "collect and stay addicted"**
Ecosyste m Launch	Burning cash for fake growth	**AI matches real users to dApps**
Anxiety	Traditional Chains	**TT Chain**

Real-World Scenario:

VCs investing in GameFi no longer gamble on single teams—TT Chain's on-chain data auto-flags the top 10 fastest-growing games, capturing traffic bonus (dividends).

Why TT Chain > Ethereum/Solana?

Killer Mechanisms:

Against Ethereum: "Use its ecosystem, steal its users"—EVM compatibility + Layer 1 infra + Layer 2 fees.
Against Solana: "Cheaper and more stable"—dynamic resource allocation prevents outages.
Against New Chains: "Your innovation, my legacy"—modular architecture absorbs cutting-edge tech.

Post-Launch Metrics:

Developer Migration: 80% of Ethereum's Top 50 dApps replicated in 8 weeks.
User Switching Cost: <30 seconds.
Capital Efficiency: AI-optimized ecosystem fund ROI up 8x.

Downward-Compatible Experience:

Web2.5 UX: Intuitive, low-barrier entry.
Financial-Grade Security: Temp addresses generated per transaction (faster than VPN switching).
Anti-Sybil Design: Fair and attack-resistant.

Ultimate Benchmark

"The iOS of Blockchain Infrastructure"

01.For developers

AppStore-like tools and traffic.

02.For users

iPhone-like simplicity with cutting-edge tech.

03.For enterprises

Apple Tax-like passive (revenue) from ecosystem growth.

Layman's Terms

If Ethereum is blockchain's "Windows 95," Solana an "overclocked Android," then TT Chain is the "MacBook"—you might not pinpoint its "best feature," but after using it, other chains feel like abacuses.

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