



**BlockDAG**

# Litepaper

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# | Overview

BlockDAG is a next-generation Layer-1 blockchain network combining Directed Acyclic Graph (DAG) architecture, Proof-of-Work security, and full Ethereum Virtual Machine (EVM) compatibility.

The ecosystem has evolved into a live blockchain infrastructure supporting staking, mining, smart contracts, decentralized finance, NFTs, ecosystem applications, and real-world utility layers.

BlockDAG is designed to solve the blockchain scalability trilemma through high throughput, low fees, fast confirmations, and decentralized participation.

# | Vision & Value Proposition

BlockDAG's vision is to create a scalable decentralized infrastructure layer capable of supporting global blockchain adoption.

The ecosystem prioritizes:

- Consumer accessibility
- Developer scalability
- Decentralized participation
- Real-world utility
- Long-term sustainability

BlockDAG combines DAG scalability with Proof-of-Work decentralization and smart contract infrastructure to support mainstream Web3 adoption.

# | DAG Architecture

BlockDAG replaces traditional linear blockchain structures with a Directed Acyclic Graph that enables multiple blocks to be processed simultaneously.

This architecture:

- Improves scalability
- Reduces congestion
- Enables faster confirmations
- Supports high throughput
- Preserves decentralized consensus

GhostDAG consensus ensures deterministic ordering while maintaining Proof-of-Work security.

# | EVM & WASM Compatibility

BlockDAG is fully EVM-compatible, allowing developers to migrate Ethereum applications with minimal modification.

Supported tools include:

- Solidity
- Hardhat
- Remix
- MetaMask
- Web3.js
- Ethers.js

The roadmap also includes WebAssembly (WASM) support for languages such as Rust, C, and C++.

## | The Problem

The blockchain industry continues to face challenges including:

- Scalability limitations
- High transaction fees
- Slow confirmations
- Centralization concerns
- Poor onboarding experiences

Many modern networks sacrifice decentralization to achieve performance. BlockDAG addresses these limitations through a hybrid DAG + Proof-of-Work architecture.

# | How BlockDAG Solves It

BlockDAG enables:

- Parallel block creation
- High transaction throughput
- Near real-time finality
- Low fees
- Decentralized mining participation

The network targets:

- 2,000+ TPS and 2 seconds consensus
- Scalability toward 15,000+ TPS
- Fast propagation and finality

## | Key Features

Core BlockDAG features include:

- DAG-based processing
- Proof-of-Work security
- GhostDAG consensus
- EVM interoperability
- Mobile mining ecosystem
- ASIC mining infrastructure
- Staking systems
- Smart contracts
- Cross-chain infrastructure
- Gaming and payment integrations

## | BDAG Utility

BDAG is the native utility asset of the BlockDAG ecosystem.

Core utility functions include:

- Transaction fees
- Smart contract gas
- Mining rewards
- Staking
- Liquidity provisioning
- DeFi collateral
- Gaming ecosystems
- Ecosystem incentives

## | Tokenomics

BlockDAG maintains a maximum supply of 150 billion BDAG.

The ecosystem allocation prioritizes:

- Mining rewards
- Community participation
- Ecosystem development
- Liquidity provisioning
- Long-term sustainability

The ecosystem avoids traditional VC-heavy allocation structures in favor of broader community onboarding.

## | Mining & Miners

Mining is a core component of the BlockDAG ecosystem.

The network supports:

- X-Series ASIC miners
- Mobile social reward mining
- Distributed Proof-of-Work participation

The X1 Reward Miner application has introduced millions of users to blockchain participation through simplified onboarding.

## | Ecosystem Development

The BlockDAG ecosystem includes:

- DEX infrastructure
- NFT marketplaces
- Lending systems
- Cross-chain bridges
- Gaming ecosystems
- Payment systems
- Super App infrastructure
- Developer SDKs and APIs

The ecosystem is supported through grants programs, hackathons, and developer onboarding initiatives.

## | Community & Adoption

BlockDAG has achieved substantial global ecosystem growth through:

- Millions of mobile reward mining users
- Participation across 130+ countries
- Expanding mining infrastructure
- Growing developer communities
- Large-scale ecosystem onboarding

The project combines Web2 onboarding systems with decentralized Web3 infrastructure.

## | Development Roadmap

The next phase of BlockDAG includes:

- Expanded exchange integrations
- Cross-chain interoperability
- Super App deployment
- Gaming ecosystem expansion
- Lending infrastructure
- Increased decentralization
- Enterprise support

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