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Moonchain zkEVM SNARKification

Moonchain is the value layer for ZK & AI. Our IHO hardware converts real-world data into trusted, high-value insights. $MCH uses AI to power, secure & monetize Data across the Moonchain ecosystem 🔮

Get Started → Check RPC endpoints

🚀WIP

This documentation is still a work in progress. Some topics have been discussed in greater depth, while others require additional clarification. Sections of this documentation might be reorganized later to achieve a better flow.

If you are interested in learning about the basics of zero-knowledge proofs, EVM, and other fundamental concepts behind our Beam Chain, check out Moonchain on Twitter.

🌒 Getting Started

🔗Section titled “🌒 Getting Started”

⚙ Configure Your Wallet to Moonchain

Configure Your Wallet to Moonchain

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Check RPC endpoints

Check RPC endpoints

Run a Beam Chain validator node

Run a Beam Chain validator node

DePIN hexagon

DePIN hexagon

Build a Dapp on Moonchain

Build a Dapp on Moonchain

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Beam Chain Bridge

Beam Chain Bridge

📖 Introducing Moonchain zkEVM

Section titled “📖 Introducing Moonchain zkEVM”

Welcome to the cutting-edge world of Moonchain, engineered to serve as the Ethereum for the Internet of Things (IoT), Decentralized Physical Infrastructure Networks (DePIN), and Artificial Intelligence (AI). Unlike other blockchains, Moonchain is uniquely designed to make DePIN, AI and

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IoT scalable. Our team of seasoned developers and blockchain experts is at the forefront of the Web3 revolution, pushing the boundaries of what's possible.

🔥 Key Features

Section titled " 🔥 Key Features"

- **IoT/DePIN Scaling**: Enhancing the scalability of IoT and DePIN applications using the Moonchain token as underlying foundation of the infrastructure.
- **Wide Range of Applications**: Empowering developers to design, backtest, and deploy any application on the Moonchain Layer 2 blockchain.
- **Advanced Token Capabilities**: Facilitating Sensor Token Offerings (STOs) and NFT issuances for real-world assets, leveraging innovative protocols like MEP-600

🌎 Native dApp Solutions

Section titled " 🌎 Native dApp Solutions"

At Moonchain, we've developed a suite of native decentralized applications (dApps) to enhance and support your projects. When you deploy your application on Moonchain, you can directly use our in-house dApps to extend utility, functionality and streamline integration. These include:

- **L1-Beam Chain Bridge**: Seamlessly connect to different blockchain layers, facilitating smooth and efficient asset transfers.
- **NFT Marketplace**: Create, buy, sell and trade NFTs with ease on our robust marketplace platform.
- **Swapping dApp**: Exchange token pairs effortlessly using our intuitive swapping application.
- **Moonchain Name Service (MNS)**: Create custom, easy-to-remember names to simplify transactions across blockchains, unify your identity in the Web3 ecosystem, and manage your decentralized websites.
- **XSD (Lending and Borrowing Protocol)**: Add collateral to borrow funds, maximizing the utility of your tokens through our comprehensive protocol.

These are just a few examples of our extensive collection of dApps designed to enhance your experience on Moonchain. Discover more here, and leverage our innovative solutions to propel your decentralized applications forward.

🌊 Use the Hudson testnet

Section titled " 🌊 Use the Hudson testnet"

Before deploying to the Moonchain mainnet, it's essential to backtest your applications on the Hudson testnet. Find all the instructions in our guides, including:

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- **Block explorer**: Explore transactions and blocks on the Hudson testnet with ease.
- **Hudson bridge/faucet**: Access resources to bridge tokens or obtain testnet tokens for development purposes.
- **NFT Marketplace**: Experiment with creating and interacting with NFTs.
- **Hudson Swap**: Test token swaps and liquidity provisions in a controlled environment.
- **Moonchain Name Service (MNS)**: Create custom, easy-to-remember names to simplify transactions across blockchains, unify your identity in the Web3 ecosystem, and manage your decentralized websites.
- **XSD (Lending and Borrowing Protocol)**: Explore borrowing and lending functionalities within our testnet ecosystem.

Prepare your applications thoroughly on the Hudson testnet to ensure seamless deployment and optimal performance on the Moonchain mainnet.

🤝 Become a Contributor to Moonchain

Section titled “🤝 Become a Contributor to Moonchain”

Moonchain is a fully open-source and community driven project, check out our Telegram or Github to get started as a contributor!

Telegram Github

🚀 Moonchain Ecosystem Partners

Section titled “🚀 Moonchain Ecosystem Partners”

The Moonchain ecosystem continues to expand rapidly, driven by collaboration with notable projects across various domains. These partnerships underscore our commitment to advancing decentralized solutions and fostering innovation in the blockchain space. We are proud to collaborate with the following partners:

Notable DePIN Projects

- BlueberryRing: Partnering for advancements in decentralized physical infrastructure networks.
- IoTeX (@iotex_io): Contributing to IoT interoperability and security.
- Drife (@Drife_official): Innovating in decentralized ride-hailing services.
- Airo Systems (@airosystems): Pushing boundaries in air quality monitoring and IoT solutions.
- Oyster Ecosystem (@oysterecosystem): Enhancing decentralized storage solutions.
- Tailz (@tailz_xyz): Revolutionizing pet care services through decentralized platforms.
- DidDiscovery (@DidDiscovery): Advancing decentralized identity solutions.
- Coral App (@MyCoralApp): Empowering communities through decentralized social platforms.
- Aphone Labs (@aphonelabs): Innovating in decentralized communication technologies.

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RWA (Real World Assets)

- RewardsBunny (@rewardsbunny): Integrating real-world assets into blockchain ecosystems.
- ANGO (@Angojp): Web3.0 solution for converting vacant houses in Japan into guesthouses, addressing the vacant house problem while contributing to regional revitalization. Operating 12 properties nationwide with DIY community members. Recruiting DAO members for Hotel & Lodging services. linktr.ee/angojp

Infrastructure

- Drop Wireless (@dropwireless): Providing infrastructure support for decentralized networks.

Data & Tooling

- Public AI (@PublicAI_): Advancing data analytics and tooling for decentralized applications.

Venture Capitalists (VCs)

- **Global JDI (@Global_JDI):** Partnering for investment and growth in blockchain innovations.
- **CandaqCom:** Contributing to the venture capital landscape supporting blockchain startups.
- **OKX Ventures:** The investment arm of a leading global crypto exchange, providing deep industry expertise and strategic ecosystem support.
- **UOB Venture Management:** A premier banking group's venture arm, bridging traditional finance with blockchain innovation and unlocking access to institutional markets.
- **CITIC Capital:** A top-tier institutional asset manager, bringing significant enterprise-level credibility and deep access to Asian capital markets.

Launchpad

- UXUY (@uxuycom): Empowering blockchain startups through comprehensive launchpad services.

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These partnerships are instrumental in shaping the Moonchain ecosystem, enabling us to drive forward our vision of a decentralized future. We value our partners greatly and look forward to continued growth and innovation together.

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