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👋 Sunrise

The base layer for Interliquid Networks.

Sunrise is a next-generation Layer 1 blockchain that combines high-throughput data availability with a native liquidity hub. It integrates **Proof of Liquidity (PoL)** and **fee abstraction**, delivering immediate liquidity and flexible gas-payment options to rollups and application chains. Validators secure the network by staking RISE and/or vRISE. Liquidity providers supply liquidity to pools and earn vRISE and trading fees. Sunrise interoperates with Rollup and L2 Blockchain, allowing developers to adopt Sunrise with minimal integration effort.

Feature requests or ideas? Open a thread on our GitHub Discussions ↗.

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Key Features

Feature	Description
Proof of Liquidity (PoL)	Validators secure the network by staking RISE and/or vRISE, aligning security *and* liquidity. Liquidity providers earn vRISE and trading fees.
Fee Abstraction	Any token can pay gas; Sunrise swaps a tiny slice to RISE under the hood. No need to hold multiple tokens for gas.
Off-chain Data Availability	Large data blobs are propagated and stored off-chain, while only a metadata URI pointing to these erasure-coded data shares are kept on-chain. Optimized for high-throughput rollups.

Blazing Fast Data Availability

Sunrise's off-chain data availability design unlocks unmatched throughput and cost-efficiency without sacrificing on-chain security.

1. **Off-chain Erasure Coding**
   → Dramatically cuts validator compute & storage: only coded shards live on chain, full data reconstruction happens off-chain.
2. **Off-chain Blob Propagation**
   → Keeps the mempool lightweight and scales to **5 + MB/s**—validators sample availability while nodes fetch or prune blobs on demand.
3. **KZG Commitments**
   → Cryptographic anchors on-chain enable sub-second proof verification and instant challenge resolution.

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Data Availability Features

Sunrise moves heavy data work off-chain while keeping on-chain proofs lean and verifiable.

1. **Off-chain Erasure Encoding**
   Dramatically cuts validator compute & storage: only a metadata URI pointing to these erasure-coded data shares on chain, full data reconstruction happens off-chain.
2. **Off-chain Storage Integration**
   Utilizing decentralized storage solutions such as IPFS and Arweave, data shards are stored externally. MsgPublishData includes only a metadata URI pointing to these erasure-coded data shares, reducing the on-chain block size requirements for blob transactions and enhancing scalability.

See Data Availability for more details.

Why build on Sunrise?

1. **Gasless onboarding** – Users don't need a special gas token; your project's token works.
2. **Instant liquidity** – Provide liquidity and earn vRISE gauge rewards and trading fees.
3. **Rollkit / OP-Stack ready** – Drop-in adapters for sovereign or Ethereum-settled rollups.

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Core Modules

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Module	Purpose
`x/da`	Data Availlability layer data publication and proof
`x/liquiditypool`	PoL pools & Providing liquidity
`x/liquidityincentive`	Gauge Voting for vRISE allocations & Bribes
`x/swap`	AMM router supporting token swap
`x/tokenconverter`	Conversion from vRISE to RISE
`x/fee`	fee abstraction & revenue split
`x/lockup`	Locking of RISE for a certain period
`x/shareclass`	Staking RISE to secure the network

Revenue Streams

- **Tx fees** – Paid by RISE on sending transactions
- **Swap fees** – Paid to liquidity providers

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Next Steps

Action	Link
Install a node	Node Setup Guide
Launch a rollup	Rollkit Guide
Become a validator	Validator Guide
Join Discord	Discord Community ↗

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