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Overview

Introduction

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Welcome to Omnipair — The Permissionless Spot & Margin Trading Protocol

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Omnipair is a decentralized hyperstructure protocol for spot and margin trading, designed for permissionless, oracle-less, and isolated-collateral markets on Solana.

How it works

- The **Generalized AMM (GAMM)** unifies swaps and lending in a single pool, where liquidity is natively lent to borrowers, maximizing capital efficiency.
- Borrowers can take margin positions by choosing collateral and debt tokens within the same pool, with **EMA-based pricing** for manipulation-resistant valuations.
- The protocol adjusts collateral factors dynamically based on **price impact**, ensuring large positions cannot borrow more than their collateral can cover in liquidation.
- Each pool operates in **isolation** — insolvencies in one market do not affect others, enabling safe support for long-tail assets.
- Liquidations use **debt write-off** with pessimistic pricing, eliminating reliance on external liquidators or oracles.

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Getting Started

Choose your path to explore Omnipair:
↗

Why Omnipair?

Understand the problems with traditional DeFi money markets and why Omnipair exists.
↗

How It Works

Learn how Omnipair solves permissionless margin trading without oracles.
↗

Start Trading

Get started with swapping, providing liquidity, or taking leveraged positions.
↗

Read the FAQ

Get answers to frequently asked questions about the protocol.

Under the hood

Dive deeper into the technical aspects and advanced features of Omnipair:
↗

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Protocol Deep Dive

Understand the GAMM model, EMA pricing, collateral factors, and liquidation mechanics.
↗

Security & Audits

Review our security audits, protocol governance, and risk disclosures.
↗

Addresses & Access

Access deployed contract addresses and access control information.
↗

Code Reference

Complete reference for all Omnipair instructions with detailed specifications.

Join the Community

Like what you see? Join the Omnipair community to stay updated and ask questions:
↗

Discord

Chat with the team and community members.
↗

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Twitter / X

Follow for announcements and updates.
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GitHub

Explore the open-source codebase.

Problem
Next

Ask a question... ⌘I



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