

Phantom Edge Whitepaper

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1. Executive Summary

Phantom Edge is primarily an educational platform for learning about cryptocurrency trading through hands-on experience. \$EDGE is a Solana SPL utility token that provides tiered access to **12+ production trading bots** spanning Solana memecoins, CEX trading, prediction markets (Polymarket, Kalshi), and forex.

By holding \$EDGE tokens, users unlock access to educational trading tools enabling them — especially newcomers — to learn about trading with minimal technical barriers. Phantom Edge also operates dedicated Solana infrastructure (a bare-metal validator with Yellowstone gRPC and ShredStream) which is offered as a service to other builders.

Phantom Edge does not provide financial advice. Users should conduct their own due diligence. Past performance is not indicative of future results.

The ecosystem is **already built and running in production.** \$EDGE is the access layer, not a roadmap promise.

Key Facts: - Total Supply: 1,000,000,000 \$EDGE - Blockchain: Solana - Launch: Pump.fun bonding curve with Raydium graduation (date TBA) - Utility: Hold-to-access for the bot ecosystem and bundled gRPC stream - Tax: 0% (no transfer tax) - Purpose: Educational platform for learning crypto trading + Solana infrastructure provider

2. The Problem

2.1 Learning Barriers

New crypto traders face significant barriers to entry. Professional-grade trading tools are expensive and fragmented: - Sniper bot subscription: \$50-200/month - Signal/prediction service: \$30-100/month - Grid trading platform: \$20-50/month - Alert channels: \$10-30/month - Dedicated Solana RPC/gRPC: \$200-500/month

A learner easily faces \$300-800/month in tool and infrastructure costs before gaining any practical experience.

2.2 Fragmented Tooling

No single platform offers comprehensive coverage across all trading strategies and asset classes. Traders cobble together solutions from multiple providers, each with separate logins, dashboards, billing cycles, and support channels. This fragmentation creates friction and makes the learning process unnecessarily complex.

2.3 Lack of Hands-On Education

Most crypto education is theoretical — courses, videos, articles. Phantom Edge believes the best way to learn trading is by doing it in a controlled environment with real tools and built-in risk management features like paper trading modes and position limits.

2.4 Barriers to Entry

High monthly costs exclude retail traders and learners from professional-grade tools. Phantom Edge lowers these barriers through a hold-to-access model.

3. The Solution: Phantom Edge

3.1 Hold-to-Access Model

Phantom Edge replaces recurring subscription costs with token holdings. Users who hold \$EDGE tokens above specific tier thresholds receive access to educational trading tools within their tier. Access is maintained as long as the tokens are held.

3.2 How It Works

1. **Buy \$EDGE** tokens on Raydium or any Solana DEX
2. **Hold** the required amount in your Solana wallet (mobile or desktop)
3. **Link** your wallet to the Phantom Edge Access Bot on Telegram
4. **Learn** using all bots within your tier while you hold

3.3 Subscription Alternative

Users who prefer not to hold tokens can pay monthly subscriptions in SOL or via Stripe (credit card). Subscription pricing is set at a level that makes long-term holding the more accessible choice.

3.4 Educational Value

Phantom Edge bots serve as learning tools that allow users to: - Understand how different trading strategies work in practice - Learn about on-chain data, liquidity, and market mechanics - Experience real-time market dynamics with built-in safety features - Practice with paper trading modes before risking real funds

4. Ecosystem Overview

The Phantom Edge ecosystem includes 12+ production trading bots across Solana, CEX, prediction markets, and forex. Each bot is designed to teach a specific trading strategy.

4.1 Pump.fun Sniper Bot

- **Language:** Rust
- **Strategy:** Copy-trade whale wallets on pump.fun
- **Latency:** Sub-50ms via Yellowstone gRPC (colocated with our validator)
- **Educational Value:** Learn copy-trading, bonding curves, and whale wallet analysis
- **Features:** Quality gate scoring, tiered take-profit, trailing stops, automatic exits
- **Tier Required:** Gold

4.2 Meme Prediction Bot

- **Language:** Python
- **Strategy:** Real-time Solana memecoin detection and scoring
- **Educational Value:** Learn about momentum detection, social signals, and on-chain data analysis
- **Features:** DEXScreener analysis, multi-strategy scoring, real-time alerts
- **Output:** Telegram alerts (public channel with 5-min delay, VIP channel with instant alerts)
- **Tier Required:** Bronze (public) / Silver (VIP)

4.3 Raydium Sniper Bot

- **Language:** TypeScript
- **Strategy:** Alpha wallet copy-trading on Raydium AMM (v4 + CPMM)
- **Educational Value:** Learn AMM mechanics, wallet tracking, and position management
- **Features:** Multi-wallet confirmation, Jito bundle execution, position tracking with TP/SL
- **Tier Required:** Gold

4.4 Airdrop Hunter RPG Bot

- **Language:** Python
- **Strategy:** Automated airdrop discovery across multiple sources
- **Educational Value:** Learn about airdrops, DeFi protocols, and on-chain opportunities

- **Features:** Gamification system with XP, levels, daily/weekly quests, achievements, leaderboards
- **Tier Required:** Silver

4.5 Arbitrage Bot

- **Language:** Rust
- **Strategy:** Cross-DEX arbitrage on Solana
- **Educational Value:** Learn arbitrage mechanics, atomic transactions, and DEX pricing
- **Features:** gRPC transaction monitoring (colocated with our validator), profitability simulation, Jito bundle execution
- **Tier Required:** Diamond (token-only, no subscription path)

4.6 Crypto Grid Bot

- **Language:** Python
- **Strategy:** Grid trading on centralized exchanges via CCXT
- **Educational Value:** Learn grid trading, DCA strategies, and multi-exchange operations
- **Exchanges:** Coinbase, Binance, Kraken, Bybit, OKX, Kucoin
- **Features:** DCA scheduling, paper trading, risk management, web dashboard
- **Tier Required:** Silver

4.7 Crypto Predictor Bot

- **Language:** Python
- **Strategy:** Multi-token technical analysis (BTC, ETH, SOL, XRP, and 10 more)
- **Educational Value:** Learn technical indicators, multi-timeframe analysis, and signal interpretation
- **Features:** RSI, MACD, Bollinger Bands, EMA, ADX analysis across 4 timeframes, Fear & Greed Index
- **Tier Required:** Bronze

4.8 Polymarket Copy-Trader

- **Language:** Python
- **Strategy:** Mirrors high-conviction sports-consensus picks on Polymarket prediction markets
- **Educational Value:** Learn prediction market mechanics, consensus signals, and event-driven trading distinct from crypto
- **Features:** Paper trading engine, auto-archived run history, copy-watcher discovery, real-time portfolio tracking, web dashboard
- **Status:** Production
- **Tier Required:** Diamond

4.9 Kalshi Scalper Bot

- **Language:** Python
- **Strategy:** Mean reversion scalping on Kalshi event markets (regulated US prediction market)
- **Educational Value:** Learn a regulated event-market asset class distinct from crypto, with completely different mechanics from on-chain trading

- **Features:** Price tracker, value scanner, paper engine + live client, intel sources, web dashboard, auto-archived runs
- **Status:** Rolling out (production runs already logged; tier assignment at GA)

4.10 Coinbase Trader Bot

- **Language:** Python
- **Strategy:** Coinbase spot and futures trading with technical analysis signals
- **Educational Value:** Learn CEX trading mechanics, paper-trading workflow, and signal-driven execution
- **Features:** Companion web dashboard, Telegram alerts, backtesting, portfolio management, paper-trading first
- **Tier Required:** Gold

4.11 Phantom Edge Copier

- **Language:** JavaScript
- **Strategy:** Multi-tenant Solana wallet copy-trading
- **Educational Value:** Learn copy-trading mechanics across multiple users in a controlled environment
- **Features:** Per-user state, Telegram control bot, signal relay integration, paper-trading engine
- **Tier Required:** Gold

4.12 Forex Trading Suite

- **Language:** Python (MetaTrader5 connector)

- **Strategy:** Multi-strategy forex trading — RSI mean reversion, breakout, EMA cross, SMC concepts
- **Educational Value:** Learn forex, traditional market structure, and risk management distinct from crypto
- **Features:** MT5 + Oanda connectors, signal copier, web dashboard, backtesting
- **Status:** Rolling out (tier assignment at GA)

4.13 Coming Soon

The ecosystem is under continuous development. New bots increase the educational value of existing \$EDGE tokens without diluting supply. Planned additions: - Pump.fun Scalper (early-pump detection) - BSC arbitrage with flash loans - MEV / Jupiter aggregator arb - Mobile dashboard for tier holders - NFT mint tools

5. Tier System & Access Model

5.1 Tier Structure

Tier	Holding Requirement	Subscription Alt.	Access Level
Bronze	5,000 \$EDGE	0.25 SOL/month (\$15/mo card)	Crypto Predictor, Meme Predictor (public, 5-min delay)
Silver	25,000 \$EDGE	0.5 SOL/month (\$30/mo card)	Bronze + VIP Meme Alerts (instant), Grid Bot, Airdrop Hunter RPG
Gold	100,000 \$EDGE	1 SOL/month (\$50/mo card)	Silver + Pump.fun Sniper, Raydium Sniper, Coinbase Trader, Phantom Edge Copier

Diamond	500,000 \$EDGE	Not available	Gold + Arbitrage Bot, Polymarket Copy-Trader (token-only access)
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Kalshi Scalper and the Forex Trading Suite are rolling out and will be assigned tiers at general availability. Subscribers may receive early access during the rollout period.

5.2 Token Verification

Token holdings are verified on-chain via the Phantom Edge Token Gate Service: - Balance checks every 5 minutes (cached) - Active re-verification every 15 minutes for engaged users - 30-minute grace period on balance drops (prevents accidental lockout during DEX swaps)

5.3 Diamond Exclusivity

The Diamond tier is deliberately unavailable via subscription. The Arbitrage Bot and Polymarket Copy-Trader can only be accessed by holding 500,000 \$EDGE tokens. This rewards the most committed community members.

5.4 Wallet Linking

Users link their Solana wallet to their Telegram account via cryptographic signature verification: 1. Request a challenge message from the Phantom Edge Access Bot 2. Sign the message with your wallet (Phantom on mobile or desktop, Backpack, etc.) 3. Submit the signature for verification 4. Wallet is linked; tier access is granted automatically

The signature happens entirely inside your wallet — your private key never leaves the wallet.

6. Tokenomics

6.1 Token Parameters

Parameter	Value
Name	Phantom Edge
Symbol	EDGE
Blockchain	Solana
Standard	SPL Token
Total Supply	1,000,000,000
Decimals	9
Transfer Tax	0%
Freeze Authority	Revoked at creation

Mint Authority	Revoked after distribution
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6.2 Fair Launch Allocation

Allocation	Percentage	Details
Pump.fun Bonding Curve	100%	All 1,000,000,000 tokens enter the bonding curve at launch

No presale. No insider allocation. No team tokens. The team purchases tokens from the open market like every other participant. This is the fairest possible launch structure — everyone has equal opportunity.

Upon graduation (~\$69K market cap), liquidity is automatically migrated to Raydium and locked.

6.3 Why No Transfer Tax

\$EDGE has zero transfer tax. Transfer taxes: - Harm adoption by increasing cost to enter - Prevent centralized exchange listings - Create negative perception among informed traders - Are associated with rug pulls and low-quality projects

\$EDGE relies on genuine utility demand, not artificial tax mechanisms.

6.4 Utility Growth

\$EDGE does not have a burn mechanism. Its utility grows over time: - Each new bot added to the ecosystem expands what tier holders can access - Each new infrastructure offering (gRPC streams, RPC, custom filters) adds another reason to hold - Tier holders receive bundled benefits (e.g., 1 included gRPC stream) that would otherwise cost separately

The token's utility expands without inflating supply.

7. Technology Architecture

7.1 Core Stack

Component	Technology
Blockchain	Solana (400ms finality, <\$0.01 fees)
Performance Bots	Rust (tokio async, zero-cost abstractions)
Integration Bots	TypeScript / JavaScript (Node.js, @solana/web3.js)
Analysis Bots	Python (pandas, CCXT, ML)
Transaction Monitoring	Yellowstone gRPC on our validator (sub-50ms latency)
Latency Edge	ShredStream integration (sub-gossip propagation)
MEV Protection	Jito bundle submission

Token Gate	Express.js microservice + SQLite
Mobile Wallet	Phantom deep links (<code>phantom.app/ul/browse</code>)
Data Sources	CoinGecko, DEXScreener, Pump.fun WebSocket, Polymarket API, Kalshi API, MT5

7.2 Token Gate Architecture

The Token Gate Service is a centralized HTTP microservice that all bots query to verify user access:

- `GET /api/verify/:telegramUserId` — Returns tier, balance, method
- `POST /api/link-wallet` — Links Solana wallet via signature verification
- `POST /api/session` — Creates authenticated session for bot config delivery (15-min JWT)
- `GET /api/config/:appId` — Delivers bot configuration (requires valid session)

Each bot depends on the Token Gate for critical operational data (wallet lists, strategy parameters, credentials). This ensures bots cannot function without valid \$EDGE token holdings even if the source code is forked.

7.3 Security

- All wallet keypairs are stored on the user's device or in volatile session memory only — never persisted to Phantom Edge servers' disk
- Wallet linking uses ed25519 signature verification (the same primitive used by Solana itself)
- Token Gate runs on private infrastructure, not exposed directly to the public internet
- Bot execution requires both tier verification AND local wallet access
- No smart contract risk: \$EDGE is a standard SPL token with no custom program
- Server-side config delivery prevents unauthorized bot usage

7.4 Mobile Wallet Integration

Phantom Edge supports a first-class mobile experience through Phantom's deep link protocol:

- **Phantom deep links** — When users on mobile click a wallet linking link, Phantom Edge automatically redirects to `phantom.app/ul/browse/{url}`, which opens our linking page inside Phantom's secure in-app browser.
- **Signature-based linking** — Wallet linking happens entirely inside Phantom. Only the public key and the resulting signature transit to our server. Your private key never leaves the Phantom wallet.
- **Session-only key handling for hot-wallet flows** — For features that require an active hot wallet on mobile (e.g., copy-trading from a phone), private keys are held **in volatile memory only** for the duration of the active session. They are **never persisted to any Phantom Edge server's disk storage**, never written to logs, and are evicted from memory when the session ends or the user disconnects.
- **Explicit guarantee:** Your private keys never touch our servers' disk storage. They live only in memory during your active session.
- **Server-side storage is strictly limited to:** public wallet address, \$EDGE balance, tier, telegram_id, and timestamps. No keys, no seed phrases, no credentials.

8. Infrastructure as a Service

Phantom Edge runs its own dedicated Solana validator. Internally, this is the engine that powers every latency-critical bot we ship — sub-50ms transaction monitoring, sub-gossip shred propagation, no shared-neighbor noise. Externally, this same infrastructure is offered as a standalone B2B product to other builders. **It is a separate product line from the bot ecosystem and is sold separately, not bundled into any tier.**

8.1 Why We Built Our Own Validator

Shared RPC and gRPC providers (Helius, Chainstack, etc.) introduce three problems: 1. **Latency variance** — Shared neighbors create unpredictable response times. Real users in regions far from the provider's data center see meaningful execution gaps. 2. **Rate limits** — High-volume strategies hit ceilings. 3. **Plugin restrictions** — You cannot configure custom Yellowstone Geyser filters or low-level chain access on a shared service.

Running our own validator solves all three for our bots. Our copy-trading and sniper bots connect over the loopback interface to the gRPC stream — the lowest-latency path possible — which means signals reach end users worldwide faster than they would on a shared provider, regardless of where the user is located.

8.2 What We Run

- **Bare-metal Solana non-voting validator** — NYC (Latitude.sh), 256 GB RAM, 48 cores

- **Yellowstone gRPC plugin** — real-time chain data: transactions, accounts, blocks, slots
- **ShredStream integration** — sub-gossip propagation, providing a latency advantage versus standard chain followers
- **Colocated latency-critical bots** — pumpfun-sniper, solana-arb-bot, signal-forwarder, dedicated-executor — all run on the same machine as the validator for minimal network hop

8.3 What We Offer to Outside Builders

This is a B2B product line aimed at other dev teams, MEV bot operators, analytics platforms, and trading firms. End users of Phantom Edge consumer bots do not need to purchase any of this — the validator powers their bots automatically.

1. **Dedicated Yellowstone gRPC streams** — Drop-in compatible with any standard Yellowstone client. Sub-gossip latency. Per-stream auth via bearer tokens. Usage metered and visible in a dashboard.
2. **Dedicated Solana RPC** — Bare-metal endpoint without shared-neighbor noise. Suitable for MEV bots, analytics platforms, and high-frequency strategies.
3. **Custom Geyser filters** — For high-volume customers who want server-side filtering (e.g., subscribe only to specific program IDs or account owners) to reduce bandwidth.

8.4 Pricing Posture

Shared providers charge \$200-500/month for usable gRPC access. Our validator's operating cost is already covered by existing colocated workloads, which lets us offer the same access at materially lower prices while maintaining margin.

Product	Price (planned)
Basic Yellowstone gRPC stream	\$99/month or 1 SOL/month
Stream + custom Geyser filters	\$199/month or 2 SOL/month
Dedicated RPC endpoint	Quoted per use case
High-volume / enterprise	Quoted per use case

\$EDGE Diamond holders get a permanent **30% discount** on any infrastructure plan and **first dibs** when the marketplace opens. Diamond is rewarded with priority and pricing — not with bundled streams that would dilute the B2B revenue line.

8.5 Why This Matters for the Project

Infrastructure revenue is **uncorrelated with token price and bot subscriber count**. While subscription revenue grows linearly with retail user count, infrastructure revenue can scale to large institutional checks from a small number of B2B customers. A few professional dev teams paying \$200-500/month easily covers the validator's operating cost, with everything above that flowing to

ongoing bot development and team operations.

8.6 Status

The multi-tenant authentication proxy is built (`grpc-proxy` — bearer token auth, per-stream limits, SQLite usage tracking, admin API). Public marketplace launches in Phase 4 alongside the post-launch infrastructure rollout. Until then, custom enquiries can be routed via the team directly.

9. Revenue Model

9.1 Revenue Streams

Stream 1: Subscription Fees Non-holders pay SOL/Stripe subscriptions: - Bronze: 0.25 SOL/month (\$15/mo card) - Silver: 0.5 SOL/month (\$30/mo card) - Gold: 1 SOL/month (\$50/mo card) - Diamond: Not available

Stream 2: Infrastructure-as-a-Service The validator + gRPC + custom filter offering described in Section 8 generates revenue from outside builders. This stream is uncorrelated with token price.

Stream 3: Ecosystem Sustainability Combined revenue funds ongoing operations: - Validator and RPC infrastructure costs - Server hosting and monitoring - New bot development - Third-party API subscriptions (CoinGecko, DEXScreener, Polymarket data, Kalshi data, MT5)

9.2 The Utility Model

1. Users buy \$EDGE to access educational tools and bundled infrastructure (utility demand)
 2. New bots and new infrastructure offerings continually expand the value of holding \$EDGE
 3. Revenue from subscriptions and infrastructure services funds further expansion
 4. The cycle reinforces utility, not price speculation
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10. Roadmap

Phase 1: Foundation (Complete)

- Website and whitepaper live
- Community building on X and Telegram

- Mascot and brand identity

Phase 2: Token Gate (Complete)

- Token gate integration for all live bots
- Telegram access bot (@PhantomEdgeAccessBot)
- Full tier system activation
- Stripe and SOL payment integration

Phase 3: Launch (TBA)

- 100% fair launch on Pump.fun bonding curve
- Raydium graduation target
- DEXScreeener, Birdeye, and Jupiter listings
- Final bot rollouts (Kalshi, Forex) reach GA

Phase 4: Infrastructure & Scale (Post-Launch)

Already shipped: - Polymarket Copy-Trader, Kalshi Scalper, Coinbase Trader, Phantom Edge Copier, Forex suite - Yellowstone gRPC running on our validator - ShredStream integration live - Multi-tenant gRPC proxy code complete

Outstanding for Phase 4: - Public launch of the gRPC stream marketplace (Section 8) - Mobile dashboard for tier holders - CEX listing applications - Cross-chain expansion - DAO governance model - SDK for third-party bot developers

11. Team

CryptoBro42069 — Lead Developer

Architect of the Phantom Edge bot ecosystem. Built 12+ production trading bots across Rust, TypeScript, JavaScript, and Python. Operates the dedicated Solana validator and Yellowstone gRPC infrastructure. Deep expertise in Solana blockchain development

and real-time trading systems.

Rayy — Marketing Lead

Drives growth across X, Telegram, and crypto communities. Handles partnerships, outreach, and community expansion.

Phillion Legaxy — Community Growth Strategist

Project manager driving community growth, content creation, and influencer outreach across X and Telegram.

12. Risk Disclosures & Legal

12.1 Educational Purpose

Phantom Edge is an educational platform for learning about cryptocurrency trading. It is NOT financial advice and NOT entertainment. The platform provides tools for hands-on learning about trading strategies, market mechanics, and blockchain technology.

12.2 General Disclaimer

\$EDGE IS A UTILITY TOKEN, NOT A SECURITY. This whitepaper does not constitute financial advice, an offer to sell securities, or a solicitation of investment. \$EDGE tokens provide access to educational software tools and bundled infrastructure benefits. They carry no promise of profit or return on investment.

12.3 Trading Risks

- Cryptocurrency, prediction-market, and forex trading involve substantial risk of loss
- **Past performance of trading bots does not guarantee future results**
- Users should only trade with funds they can afford to lose
- Bot performance depends on market conditions, network congestion, and configuration
- Users are encouraged to use paper trading modes before risking real funds
- All trading decisions are the sole responsibility of the user

12.4 Token Risks

- Token value may fluctuate significantly

- Liquidity may vary; users may not be able to sell at desired prices
- Standard SPL token with no custom program (minimizes smart contract risk)
- Regulatory changes may affect token legality in certain jurisdictions

12.5 Platform Risks

- Bot infrastructure depends on third-party services (Solana RPC providers, Jito, Polymarket, Kalshi, MT5 brokers)
- Service disruptions may temporarily affect bot operation
- Mobile session-key handling depends on the security of the user's device — users are responsible for device-level security (PIN, biometrics, OS updates, avoiding malicious apps)
- The team reserves the right to modify tier thresholds and subscription pricing

12.6 Not Financial Advice

The Phantom Edge team does not provide personalized financial recommendations. All trading bots are educational software tools provided as-is. Users are solely responsible for their trading decisions and outcomes. Consult a qualified financial advisor before making investment decisions. Do your own research (DYOR).

12.7 Regulatory Compliance

\$EDGE is designed as a utility token with genuine software access utility. However, cryptocurrency regulation varies by jurisdiction. Users are responsible for ensuring compliance with their local laws and regulations. Prediction-market trading (Polymarket, Kalshi) and forex trading have separate regulatory regimes that vary by jurisdiction.

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