

PhantomX

Overview & White Paper

www.phantomx.co

2. **I**ntroduction

3. **S**ummary

3. About PhantomX

3. Our mission

4. The team behind PhantomX

5. **S**pecification

6. **W**hy would someone invest in PhantomX?

7. **S**calability and Network

8. **P**roof-of-Work

9. **P**roof-of-Stake

10. **M**asternodes

We strongly believe that any decentralized payment system that wishes to achieve universal adoption and solidify itself as a viable global currency must be built in such a way that its very infrastructure inherently addresses and solves all aforementioned bottlenecks early on.

Economically speaking, the recent exponential price appreciation of Bitcoin from under \$0.01 to over \$17k as of writing this paper clearly demonstrates an increasing global market demand for the solution that Bitcoin offers, however, we believe that until a comprehensive solution arises that fully answers the challenges faced by the Bitcoin network, a full capitalization of the global multi-trillion-dollar financial industry cannot be reached. With this philosophy and unmet market demand in mind, we have decided to create **PHANTOMX**.

PHANTOMX is a community-driven, open source and fully autonomous cryptocurrency that places a strong emphasis on the very building blocks required to create a complete payment system: it is secure, anonymous, trustless, scarce and fungible with a very low-cost transaction profile. It is designed to embody all that Bitcoin as well as more advanced cryptocurrencies have grown to become as well as to capture the economic value that is thus far inhibited by the systemic constraints outlined above.

About PNX

Our vision is to see a world that has fully embraced the blockchain. A world where people utilize blockchain technology as freely as they currently do the camera to take a selfie. For this to happen, we believe that human interaction with the blockchain must be revolutionized. The blockchain must be made easy to use, meaningful, and accessible to everyone, regardless of their country of citizenship or economic means. We plan on providing people with the tools and resources to make this happen. PHANTOMX is about empowering people and creating opportunities. Ultimately, we envision a "humanized" blockchain.

Our Mission

PHANTOMX strives to provide the world with an easy to use, meaningful cryptocurrency and blockchain platform. One that not only provides businesses, entrepreneurs, and individuals with a fast and secure environment for the exchange of goods and services, but one that also allows for people to communicate with each other, to increase their levels of education, and to ultimately improve their day-to-day lives. PHANTOMX will be for everyone.

PHANTOMX strives to:

- Provide a strong, stable, and robust cryptocurrency.
- Build and maintain a sound support infrastructure.
- Encourage third-party application development.

The team behind the PHANTOMX

PHANTOMX has been developed by an experienced team of software developers lead by Alexander. Alexander is an entrepreneur and love new challenges using blockchain technologies.



Alexander
Pohekay



Roman
Sereda

We believe it is important to have a standard trust-less implementation for improving the privacy of it's users in the reference client that provides a high degree of privacy.

The greatest challenge when improving privacy and fungibility of a crypto-currency is doing it in a way that does not obscure the entire blockchain.

DarkSend uses the fact that a transaction can be formed by multiple parties and made out to multiple parties to merge funds together in a way where they cannot be uncoupled thereafter. Given that all DarkSend transactions are setup for users to pay themselves, the system is highly secure against theft and users coins always remain safe.

General	
Algorithm	X11
Services	PoW and PoS
Block Reward	47 PNx
Block Time	120 seconds
Recalculated difficulty:	Every block
Max coin available:	50 Millions
Transaction confirmation:	10 blocks
Mining maturation time:	15 blocks
P2P Port:	31978
RPC Port	21978
Masternode Collateral	20.000 PNx
Masternode reward:	50% from PoS
Min Stake	3 days

Why would someone invest in PhantomX?

PHANTOMX brings power back to the people. For too long low income earners have been unconsidered in cryptocurrency growth centralizing power to an elite few. Utilizing our Masternode method, you can generate passive income without the requirement of expensive mining systems or burning excessive power utilizing staking which we all know is both bad for the environment overall.

We are community driven so we will actively seek methods towards directing our community with financial freedom whether through partnerships, expansions or community projects. PHANTOMX is stable and growth in price and has a good coin support for the community and development.

Besides that, high diff mining implemented on the system core - this additional network protection. We are offering a community a stable project. And finally, we will be developing a mobile-style payment system that will allow small businesses to utilize PHANTOMX in exchange for goods in services in the future

Scalability and Network

To ensure the long-term health and future-proof its network, PHANTOMX has decided to introduce the following:

- **Larger and Faster Blocks.** PNX relies on a block size of 2MB and a block time of 60 seconds. This effectively allows PNX to handle a transaction volume 20x greater than Bitcoin's.
- **Flexible Blocksize.** Roughly 6 months into PNX's life cycle, the network will switch from a consensus algorithm of mining-driven Proof of Work to staking-driven Proof of Stake. Upon this second stage, the protocol will switch to a dynamic blocksize that will adjust in size to any increase in transaction volume. If the network detects that more and more transactions are stuck in the unconfirmed queue (known as the mempool) it will dynamically increase the size of the subsequent blocks to handle the increase in transaction volume. This is the equivalent of a mining difficulty algorithm applied to block sizes.
- **Masternodes.** The PNX network constitutes a 2-tier architecture, where the first tier is the protocol level, mining and staking and the blockchain itself. The second layer is its masternode array, being a large network of high availability dedicated servers operated by users. These users provide enhanced services to the network (such as faster transactions, anonymous transactions, voting validation and others) as well as contain a full copy of the blockchain.

Proof of Work

Proof of Work is the process by which miners, individuals who dedicate their computational resources to solve difficult mathematical challenges, prove that they have done the necessary work required by the network to validate blocks, which are data containers for a large list of new transactions. It is referred to as a consensus algorithm because a majority of overall mining processing power is needed in order to enforce any new protocol update proposal.

To motivate miners to participate in the mining process and cover their costs, the first miner to find a new block is compensated for their efforts. This introduces an element of economic competition between miners and prevents the network from being attacked as attacks become too costly and thus, economically unviable.

PoW Rewards	
Pow from block 1 – 250000:	47 PNX
from 250000 – 750000:	23 PNX
from 750000 – 1250000:	11 PNX
from 1250000 – 2000000:	5 PNX
from 2000000 – 4000000:	3 PNX

PNX's block time is set at 60 seconds, meaning the network aims for blocks to be created every 60 seconds. This aim is facilitated by what is known as a difficulty retargeting algorithm, which increases or decreases the difficulty of finding a block in proportion to the total hashing rate (processing power) being contributed to the network.

Proof of Stake

The Proof of Stake (PoS) consensus algorithm is very similar in nature to the Proof of Work algorithm outlined above, rather than devoting computational resources (i.e. work), participants dedicate their PNX coins as collateral, the more coins one possesses the more likely they are to secure a block. This has two added benefits: first, it is cheaper and more cost effective than **PoW** as it does not waste nearly as much electricity and real-world resources as PoW does. Second, since the likelihood to find and validate a block is proportional to the stake one owns in the network, the more incentivized they are to ensure its ongoing health and are far less likely to perform malicious attacks against their own wealth. Therefore, it becomes extremely expensive for an external attacker to perform attacks on the network.

Traditionally, staking requires that a user has their device running and continuously connected to the network at all times, otherwise they are skipped by the network for reward distribution. Think of it as generating passive interest on your bank balance while helping maintain its infrastructure at the same time while incurring too much costs at all.

PoS Rewards	
from block 1:	5 PNX
from 50000:	50 PNX

Masternodes

Masternode are dedicated hardware nodes that sit on worldwide servers connected to the PNX network, each maintaining an exact replica of the entire PNX blockchain and providing enhanced services to the network.

As masternodes are essentially continuously-connected nodes that are hosted on dedicated servers, their function is to provide a host of services and guarantee their availability to customers of the PNX network. To increase the degree of distribution and thus network security, each masternode is required to have its own IP address, to ensure they are hosted on as many servers as possible and guarantee network resilience and redundancy.

Within the context of the PNX network and as each standard node is securely connected to one or more masternodes, these services are primarily PNX PrivateSend and InstantSend. Masternodes must lock in a large number of coins (exactly 20,000 PNX as collateral; this is a flexible collateral as it can be withdrawn and moved at any point in time, however, upon doing so, the masternode immediately goes offline) as well as incur hosting costs, they are compensated for their costs and efforts in terms of both a portion of all block rewards and fees for the advanced services outlined above.

PhantomX
www.phantomx.co