Version Notes

This eBook is updated from time to time as more data develops and a more refined version of the project's goals becomes clear. We shall try to keep archived copies as time progresses (*starting with version 1.0.0*)

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- Draft2Digital

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Forward

Crystal Bitoreum represents the next chapter in the journey of the original Bitoreum project. Building upon the foundations laid by its predecessor, Crystal Bitoreum aims to enhance and evolve the original vision by incorporating modern advancements in blockchain technology and improving the scalability, security, and user experience of the network.

As a continuation of Bitoreum, Crystal Bitoreum remains committed to its core principles while introducing innovative solutions to address the growing needs of the crypto community. Our goal is to foster a robust, decentralized ecosystem that empowers users and drives adoption in the ever-evolving digital economy.

This whitepaper outlines the path forward for Crystal Bitoreum, focusing on key improvements and new features that will make it a leading project in the blockchain space. We invite you to join us as we continue to develop and grow the Crystal Bitoreum network into a truly transformative force within the cryptocurrency landscape.

Bitoreum's Legacy to Crystal Bitoreum

Crystal Bitoreum is the continuation of the original Bitoreum Project. May 3rd, 2023, was the last known date of contact with the original project developer, singular. During this project's life, a ragtag band and a fledgling community were developed around this coin. As such, I, NunyaBidnizz, did not want to see this project die and fade into obscurity.

The name Crystal Bitoreum is a throwback call to a certain company's endeavor to change the base product. Nothing about the project I seek to change outside of the internal name.

I seek to bug-fix the network and solve all of the major issues the project had as of version 3.0.2, codenamed "Transilvania." We have a long road ahead, and I hope you, the community—both new and legacy—help us achieve that goal towards the advancement of this project to preserve it!

What is Crystal Bitoreum?

Crystal Bitoreum is a decentralized financial technology accessible to everyone that is fast, reliable, and secure with negligible transaction costs. Crystal Bitoreum has its own blockchain, which is a fork of the the original Bitoreum project, which in turn was a fork of the Raptoreum codebase built on the ASIC-resistant POW Ghostrider algorithm and consensus, ensuring Smartnodes which make the network immune to 51% attacks. Crystal Bitoreum coins can be mined on both CPU and GPU. Crystal Bitoreum cares about privacy and has an integrated CoinJoin mechanism that allows users to hide their balance directly in the wallet.

Long-term plans include the creation of a cryptocurrency-only store featuring Crystal Bitoreum and other coins/tokens, aiming to fulfill the long-held desire of the crypto ideology: to move beyond the store-of-value concept. My personal belief, is that crypto will only ever be a fringe idea until its utilization becomes seamless or near-seamless for consumers. In other words, it will only be truly realized when a simple day-to-day transaction is indistinguishable from using cash or a card to pay for goods or services.

Problems Crystal Bitoreum Attempts To Solve

Crystal Bitoreum is a transparent and scalable financial system that aims to make cryptocurrencies accessible to everyone. The following are the main directions we wish to contribute to moving forward:

1. Fix the Core Wallet. Version 3.0.2 was the final release from the original project, and it had many known and unknown errors. The biggest one for the modern era is that it was designed for Ubuntu 18.04. GitHub is in the process of even deprecating support for Ubuntu 20.04 currently, so bringing the codebase compliant to 22.04 & 24.04 is of top priority **(stable build completed at the time of writing)**.
2. Resume and retain larger community support. With the original project's developer going AWOL, many exchanges and pools have dropped the $BTRM token. Community trust has faltered; this ***HAS*** to be repaired on all levels.

3. We still believe that everyone should be able to get a part of the financial pie with high returns that are usually accessible only to rich investors. That is why everyone can earn coins with modest initial investment by deploying Smartnodes and contributing to blockchain stability and security.
4. Contingency Plan: We plan to transparently use a part of the developers' fee, going forward, to increase the developer pool from one to an actual team. So, in the event of my disappearance, this project can continue without the need for a complete fork... AGAIN
5. Community Outreach: I personally believe this should now be a community-driven project. I was originally a part of the OG community and liked the community aspect of it. The OG developer did listen to the community at times, and I plan to expand on that and guide the project in a more community-focused way after the major errors have been addressed.

The roadmap to our goals (once the site has been completed) will be found at our new official page Bitoreum.cc

Tokenomics & Mining

Bitoreum started off with no pre-mine. That said, we in good faith cannot make this claim. Crystal Bitoreum's official claim is to be the legitimate successor to the Original Bitoreum. As such, we are several years into the project, millions have been mined, smartnodes have long been established, etc. We have no plans to change the token, only fix the core, re-establish community trust, and work in partnership with other coins, exchanges, and mining pools. Since those tokens already exist, it is up to you, the user, to take that into consideration while deciding to join us or pass on us.

All developer revenues stem from a 5% developer fee, and thus it is in the developer's interest to grow and maintain the project as long as possible. The total supply of the coin is 21,000,000,000 $BTRM.

Bitoreum is a POW (Proof of Work) coin that can be mined with CPU or GPU using the Ghostrider algorithm. Crystal Bitoreum uses the Ghostrider algorithm, which is ASIC resistant. The faults of ASICs are well-known, as they consume a lot of energy. Every two minutes, a new block is minted.

Reward Mechanics

(Time starting from the genesis block, time is estimated from calculations of the block rewards system in the code. Block halving is approximate and requires further study of code)

Table 3.1 Reward Mechanics

Block Start - End	Block Start ($y $d)	Total Reward	Miners	Smartnodes	Developer
0 - 719	0	4	3	0.8	0.2
720 - 553531	0y 1d	5000	3750	1000	250
553532 - 2105656	2y 38d	4990	3742.5	998	249.5
2105657 - 5273694	8y 4d	4250	3187.5	850	212.5
5273695 - 7378632	20y 24d	1280	960	256	64
7378633 - 8399208	28y 28d	295	221.3	59	14.8
8399209 - 14735284	31y 350d	55	41.3	11	2.8
14735285 - 15798384	56y 25d	54	40.5	10.8	2.7
15798385 - 25844303	60y 42d	5	3.8	1	0.03
25844304 - 30000000	98y 124d	0.001	0.00075	0.0002	0.00005

To start mining, just choose a current active pool from [MiningPoolStats - Bitoreum](); and follow the instructions on that pool to set up your miner.

Wallet

The Crystal Bitoreum core wallet will be available for all major operating systems, including MacOS (currently just x86, ARM via Rosetta Layer), Windows 64-bit only, Linux, Raspberry Pi & Ampere.

Once downloaded, the wallet can be encrypted, and a password will be required to decrypt it. It is highly recommended to immediately back up the password and "wallet.dat" file onto a minimum of two separate flash drives.

Smartnodes

Smartnodes on the Crystal Bitoreum network host full copies of the blockchain data and provide a unique second layer of services to the network, facilitating advanced functions such as InstantSend.

Another important role of the Smartnodes is to contribute to the security and decentralization of the blockchain. The Smartnode's ChainLock feature reduces uncertainty when receiving funds and removes the possibility of 51% mining attacks. For each block, several smartnodes are selected, and each of them signs the first block that it sees. If enough members see the same block as the first block, they will be able to propagate it to all nodes in the network.

Hardware Requirements For Smartnodes

Smartnodes do not require special equipment and can be enabled and accessed directly from the wallet. Before we get into the specs, I cannot stress this enough: running a smartnode on a home network is strongly not advised. ISPs for the home are notably unreliable, and the hardware we as humans run is even less reliable.

At this time, we cannot offer reliable support for running smartnodes on a home networks!

We recommend a VPS. Oracle, Racknerd, and Vultr* are all great options with a variety of low-cost solutions.

Minimum Specs	Recommended Specs
1-2 Core CPU	1-2 Core CPU
1GB RAM	4GB RAM
2GB SWAP	
20GB SSD	50GB SSD (more is *always* better)
Fast Internet	Fast Internet
Static IPv4	Static IPv4

Collateral Requirements For Smartnodes

To set up a Smartnode, you need to provide the collateral amount that depends on the current block height, as described in the table below. The whole amount should be sent to a chosen wallet in one transaction. One of the important advantages of staking with Smartnodes is that collateral is not locked and can be recovered immediately by dismantling a Smartnode at any time.

Block Number	Collateral Amount
0-88720	600,000 $BTRM
88721-132720	800,000 $BTRM
132721-176720	1,000,000 $BTRM
176721-220720	1,250,000 $BTRM
220721-264720	1,500,000 $BTRM
264721 - ∞	1,800,000 $BTRM

We have considered the possibility of a final smartnode collateral update but at the time of writing this data is accurate.

Full smartnode setup instructions will come at a later time

Smartnode Rewards

The exact ROI depends on the number of Smartnodes present in the network and the collateral amount required to set up a Smartnode.

Please see table 3.1 in the Chapter [Tokenomics](#) for a full breakdown of expected rewards over time.

VPS options with an * next to them are affiliate links that often have promotions for you and possibly finacial compensation for us as a community, The NikoVash Empire, or IoVa Systems

Contacts

- Website: https://bitoreum.cc
- Explorer: https://explorer.bitoreum.cc
- Github: [Crystal Bitoreum](#)
- Discord: [Crystal Bitoreum Network](#)
- Bluesky: [Ramen Wukong](#)
- YouTube: [@CrystalBitoreum](#)

Useful Links

- Bitoreum Pools: [Mining Pool Stats](#)
- Recommended Exchange: [TradeOgre](#)
- Alternative Exchange: [XredX.org](#) | BTRM/DOGE
- Alternative Exchange: [crateX.io](#) | BTRM/ BTC, BTCZ, CRATX, DOGE, LTC, USDT
- Alternative Exchange: XeggeX | BTRM/USDT pair inactive high withdraw fee
- Alternative Exchange: Finexbox BTRM/USDT Extremely high fees
- Coin Aggregator: [IoVa Systems](#)
- Coin Aggregator: [CoinGecko](#)
- Coin Aggregator: [CoinPaprika](#)
- Coin Aggregator: [AltBuster](#)
- Coin Aggregator: [CoinCodex](#)

Special thanks to everyone who has contributed to making the project, and a big shout-out to Marius. Without you, we wouldn't be here, for better or worse. You are missed, buddy, and I do hope you are alright somewhere...

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