



Liberum

Comparison with Public chains

King of Technology Basic of chains

**Powering blockchain
infrastructure**

Liberum is known as **Basic of chains**, and it is said that its technical strength cannot be underestimated. As a blockchain professional investor and technology enthusiast who has been in business for three years, after repeated comparisons, he found that Liberum is indeed the king of technology on the public chain track.

Items	LBR	BTC	ETH	EOS	XRP	Comments
Consu s	HWD- POW	POW	POW	DPO S	POC	Liberum improves on the original algorithm POW
TPS	More htan 2000 tps	5.68 tps	20 tps	1000 tps	1500 tps	By separating transactions from smart contracts, Liberum's advanced layered group chain system has 100 times faster than Ethereum
Securi ty	Very High	High	High	High	High	Liberum's unique HWD-PoW innovative consensus mechanism significantly increases the cost of attacks. The experimental results in three real Ethereum mainnet scenarios prove that the use of HWD-PoW scheme will increase the attack cost by more than 100 times
Decen tilizat ion	High	High	Nor mal	Low	Low	While improving transaction processing speed, Liberum still maintains a very high degree of decentralization and security, breaking the impossible triangle
Sourc e Open	Open	Open	Ope n	Open Parti ally	Ope n Parti	Open source is the base of the public chain. Only open source can maintain the

					ally	fairness of the project.
Cross-Chain	Acheived	-	-	-	-	Liberum takes the lead in supporting cross-chain technology
Account	Asymmetric encrypted addresses/LID	Asymmetric encrypted address	Asymmetric encrypted address	EOS Account	Asymmetric encrypted address	The Liberum account system is a series of Asymmetric encrypted address as others. Although it guarantees anonymity, it loses convenience in operation. Therefore, Liberum has added an identification system,LID for users to use and manage.
Smart Contract	Smart contracts implemented in the form of subchains	-	Support	Support	-	Liberum provides a customized sub-chain blockchain solution for each smart contract, which is more efficient and more scalable than the existing smart contract execution solution
Asynchronous smart contract	Core technologies	-	-	-	-	Based on the group chain architecture, Liberum uses asynchronous smart contracts and sub-chains to accelerate the development and deployment of DApps. This advanced architecture design also extends the capabilities of Solidity and Ethereum smart contracts.
Sharding	SCS Sharding	-	Casper	Region	-	Liberum public chain provides blockchain sharding function, which can horizontally divide data across multiple

						blockchains and nodes. One of the reasons for the inefficiency of existing blockchain solutions is that all nodes need to process the same task multiple times. The sharding technology provides more powerful processing power proportional to the number of nodes in the network by sharding the nodes.
Subchain deployment	Inovate sub-chain of customizable consensus algorithm	-	-	-	-	The child chain is structured on the upper layer of the parent chain, which allows each child chain of Liberum to have its own unique consensus system and algorithm. This greatly facilitates the deployment and practical application of the sub-chain, so many technology enthusiasts believe that Liberum is the public basic chain that has the most opportunity to become the mother of the Wanchain in the current public chain.
One-click chain building	Core Technology	-	-	-	-	By simplifying the process of deploying sub-chains into a one-click chain launch script, Liberrum has lowered the barriers to entry of blockchain technology and will help more traditional enterprises to blockchainize and commercialize blockchain technology.
Business application	large-scale use	Not suitable	Not suitable	Suitable use	Suitable use	Due to the extremely fast transaction processing speed and support for disruptive innovations such as one-click chain launch and sub-chain deployment of customizable consensus algorithms, Liberum can support large-scale commercial launch.

Business application scenarios and directions	Support massive application scenarios in all walks of life	-	-	Simple finance such as gaming	Financial applications	Liberum can provide a flexible and easy-to-use blockchain infrastructure, and the service quality is more efficient, the cost is lower, the flexibility and simplicity is better, so the public chain can support a large number of blockchain business application scenarios in various industries.
Decentralized financial applications	Suitable	-	-	Simple use such as gaming	Suitable	Liberum develops digital asset custody, digital asset clearing, digital asset exchange, digital index investment, asset securitization
Decentralized social applications	Cross-platform cross-chain instant messaging	-	-	-	-	Combined with DIMP, the Liberum public chain is opened to many technical teams to develop social applications freely. Based on the characteristics of the decentralized instant messaging protocol, it will be the first to implement cross-platform and cross-chain instant chat in the future.
Decentralized broadcasting	Support	-	-	-	-	Due to Liberum's fast processing speed and its own revolutionary instant messaging technology, it has promoted the birth of its decentralized network-wide broadcast function.
IoT applications	Everything can launch on chain	-	-	-	-	As the basis of chains, Liberum will shine on the Internet of Things. It can be conservatively estimated that the Internet of Things applications can be at least 100 billion.

Launc h year	2020	2009	2015	2018	2013	Blockchain 1.0 Bitcoin has increased by 7.64 million times in ten years, and then Blockchain 2.0 Ethereum took only three years to reach its peak price of nearly 5,000 times. So what surprise will Blockchain 3.0 Liberum surpass in technology?
Initial Price	?	0.0025 USD	0.28 USD	1.06 USD	0.0000001 USD	
Highe st Price		19114 USD	1396 USD	17.58 USD	1.95 USD	
Times		7 millions	5000	17	30 millions	
	Ceilin g price					
	Gain					

Nowadays, many public chains on the market are proud to have the ability to develop cross-chain technology, but from the perspective of technology developers, cross-chain is the most mundane one of Liberum's many leading technologies. First, cross-chain technology is a relatively familiar technology for the Liberum core development team. In addition, from the perspective of the development of blockchain technology, the needs and significance of cross-chain technology and markets are far less than the speed of transaction processing, security, deployment of sub-chains and smart contracts.

The public basic chain that can be applied commercially can only have a future. Therefore, how to create a commercial blockchain with high performance requirements is the real core competitiveness. The most important condition for building a high-performance commercial public blockchain is that the transaction processing speed should be fast. Second, the degree of decentralization and security cannot be sacrificed, because if decentralization (such as EOS) is reduced for speed, why we do not use visa and paypal directly? Regarding security, there is no need to talk about it. If blockchains that cannot guarantee security are not worth mentioning.

By separating transactions from smart contracts, Liberum has increased the overall transaction processing speed by 100 times compared to Ethereum, while its unique HWD-PoW innovative consensus mechanism maintains a high degree of decentralization while greatly increasing the success of attackers. The cost of a double spend attack and a 51% attack. Therefore, it is no wonder that many people in the market applaud the underlying public chain that broke the impossible triangle of "processing speed-security-centralization".

Finally, Liberum pioneered the deployment of custom consensus sub-chains, and simplified the process of deploying sub-chains into a one-click chain script, which not only completely defined the previous industry's perception of sub-chains, but also greatly reduced the blockchain Threshold of entry for technology. Due to the extremely fast transaction processing speed and the support of disruptive innovations such as one-click chaining and sub-chain deployment of customizable consensus algorithms, it is not difficult to foresee that Liberum can support large-scale commercial implementation in the future. Its technical capabilities and development potential are indeed better to be ignored.