

Project	Description	Solution	Consensus	Interoperability	Scheme	Application	Compatibility with traditional ledger
Ripple	Ripple aims to build a global payment network based on blockchain, which proposes the Interledger protocol for establishing links with traditional financial institutions.	Notary	ILP	1-c-1	Protocol	Most situation	Yes
BTC-Relay	In 2016, the Consensus team introduced BTC-Relay, the most classic relay cross-chain solution that enables cross-chain transactions between Ethereum and Bitcoin, as well as realizes Ethereum DAPP applications to support BTC payments.	Relay	PoS	1-c-1	Layer 2	Asset exchange	No
Cosmos	Cosmos is a cross-chain platform project initiated by the Tendermint team in 2017. It supports the modular establishment of Cosmos isomorphism chains and also supports the external heterogeneous chain through Bridge.	Relay	Tendermint	N-c-N	Blockchain	Decentralized exchange	No
Polkadot	Polkadot is a cross-chain platform project initiated by Parity Technologies that links the blockchain networks through relaychains and parachains, and links other chains outside the Polkadot network via BridgeChain.	Relay	PoA	N-c-N	Blockchain	Scalability of decentralized computation	No
Lightning network		Hash Timelock	PoW	1-1	Layer 2	Real-time payment	No
Aion	Aion aims to build a multi-tiered cross-chain platform that supports cross-chain interoperability of heterogeneous chains and connects the blockchain systems by connecting networks and bridges.	Relay	DPoS+PoI	N-c-N	Platform	Information exchange	No
ICON	ICON is committed to building a cross-chain network that connects all types of blockchain systems, enabling DAPPs to be interconnected across all types of blockchains. ICON handles cross-chain transactions primarily through a notary mechanism.	Notary	LFT	N-c-N	Blockchain	Most situation	Yes
Wanchain	It is a cross-chain platform project that provides a cross-chain platform for interoperability of existing heterogeneous chains. It adopts a distributed signature notary mechanism to protect the accuracy of cross-chain transactions.	Notary	WANPos	N-c-N	Platform	Asset exchange	With chainlink
Fusion	Fusion supports multi-platform cross-chain asset transfer, using a distributed signature notary model for cross-chain transaction processing.	Notary	HHCM	N-c-N	Platform	Transactional	No
Chainlink		Notary	N/A	N-N	Protocol	Most situation	Yes

ArcBlock		Relay	N/A	N-c-N	Platform	DApps	No
PalletOne		Notary	DPoS+Jury	N-N	Platform	Most situation	No
Quant Overledger			N/A	N-N	Platform	DApps	Yes
Plasma	Plasma is a side chain design model of Ethereum. Its main idea is to provide a model that can perform cross-chain transactions, and rely on the Ethereum blockchain to ensure its safety. The MapReduce mode is used to perform parallel computing, which greatly improves the performance of the sidechain.	Sidechain	PoS	1-1	Layer 2	Smart contract framework	No
Elastos	It is a public chain designed with a sidechain scheme. The main chain relies on the Bitcoin POW mechanism to ensure credibility without increasing energy consumption. Sidechain increases the computing power in the form of cluster services to avoid overloading the main chain.	Sidechain	DPoS	1-N	Platform	DApps	No
Liquid	Liquid is a sidechain of the BTC and is a typical representative of the multi-signature notary mechanism. It is specifically designed to meet the BTC fast transfer needs of exchanges, market makers, and brokers.	Sidechain	PoW	1-1	Layer 2	Bitcoin-related	No
OneLedger		Sidechain	3-layer consensus	1-1	Protocol	Decentralized exchange	No
Bytom	A multi-asset swap platform that operates on other chain assets. Developers can create a smaller version of the X-chain (other chain) repeater XRelay than the original chain, than the Dapp developer on the original chain. API calls can be made from smart contracts to X-chain repeaters to validate X-chain network activity for cross-chain communication.	Relay			Platform		No
Aelf	Aelf adopts the architecture of main chain + side chain, which mainly solves the problem of resource isolation. Different applications have different requirements on resources and performance. Therefore, their operation in separate spaces is the optimal asset allocation of system resources.	Sidechain		1-1	Platform	Sidechain expansion	No
Zipper	Zipper is a decentralized transit network that implements peer-to-peer messaging and transaction settlement across multiple blockchain networks. The Zipper Blockchain Gateway (CCG) will be responsible for connecting all external blockchains.	Notary	Tendermint		Platform	Transactional	No