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.	Notrary	ILP	1-c-1	Protocol	Most situation	Yes
BTC-Relay	In 2016, the Consensys 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 DApps 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 Terdermint 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
Lighting network	Lightning Network is a project running on Bitcoin. There are two main technical points, one is the RSMC (Recoverable Sequence Maturity Contract) and the other is the Hash Time Lock Contract. The former solves the problem of confirmation of the chain transaction, and the latter solves the problem of the payment channel.	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	The ChainLink project was launched in 2014 to address an important issue of blockchain interaction with external data by creating a secure link to link real-world data to blockchain systems.	Notary	N/A	N-N	Protocol	Most situation	Yes
ArcBlock	ArcBlock is a platform dedicated to the development and deployment of decentralized blockchain applications using the Open Chain Access Protocol to realize the cross-chain ability of most applications.	Relay	PoS	N-c-N	Platform	DApps	No
PalletOne	It is a high-performance distributed cross-chain protoco, and has become the IP protocol of the blockchain world. By unifying the interface of each blockchain, it provides a multi-language smart contract running environment, uses randomly elected jurors to manage multi-signed public keys.	Notary	DPoS+Jury	N-N	Protocol	Most situation	No
Quant Overledger	Quant Network creates the Overledger system that operates on top of blockchains, providing the interface for enabling the interoperability between blockchain and traditional network. It provides unlimited possibilities for blockchain data and applications	Relay	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	AUXPoW+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.	Notary	PoW	1-1	Layer 2	Bitcoin-related	No
OneLedger	OneLedger is a cross-chain consensus protocol that enables individuals or businesses using OneLedger to easily implement cross-chain interactions by creating sidechains. All transactions are performed on the sidechain, which greatly improves the efficiency.	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 relayer of other chain, and API calls can be made from smart contracts to the relayer of other chain to validate network activity for cross-chain communication.	Relay	PoW	1-c-N	Platform	Asset exchange	No
Aelf	Aelf adopts the architecture of sidechain, 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	DPoS	1-1	Layer 2	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 Cross-chain Gateway (CCG) will be responsible for connecting all external blockchains.	Notary	BFT	N-c-N	Platform	Transactional	Yes