

CHAINREACTOR

BlockChain Catalyst

The Solution

Blockchain Catalyst

ChainReactor uses proprietary Blockchains as core decentralized services to build Blockchain Technology

We call them **Reactors**

The decentralized Reactors provide the following services:

- ✓ Configuration (removes the need for forking)
- ✓ Security
- ✓ Trust
- ✓ Blockchain / Node Name Resolution

SPEED

Transactions per Second

ChainReactor uses computing power efficiently and speeds up as more Blockchain nodes are added to the network

ChainReactor	→	Billion TPS per 1,000 nodes
VISA / MASTERCARD	→	100K TPS
Bitcoin	→	9 TPS
Ethereum	→	10.5 TPS

Relational Database Model

BlockChain SQL Server

ChainReactor runs on MS SQL Server

Phase 2 will allow it to run on any major database platform

- ✓ ORACLE
- ✓ DB2
- ✓ MySQL

...and more....

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Blockchain Queries

T-SQL of Blockchain Data

ChainReactor uses Transact-SQL (T-SQL) to query Blockchain data

Complex queries can be used in a relational data model for reporting

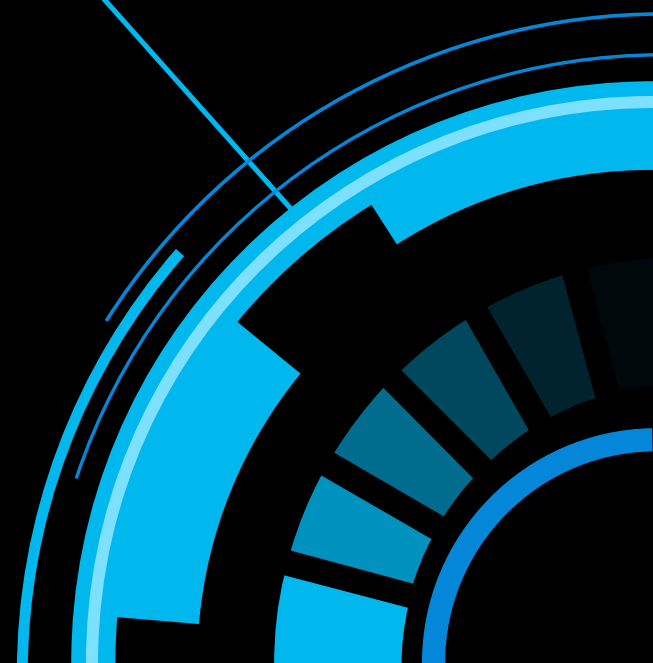
A query capability for Blockchain data makes it usable by traditional client server applications

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Cryptographic Assets

ChainReactor allows application designers to create their own cryptographic assets

Advanced properties include:

- ✓ Transactional Privacy
 - ✓ Greater than or equal to balance
 - ✓ Digital signing for transactional need to know only
 - ✓ Decay
 - ✓ Smart Contract Support
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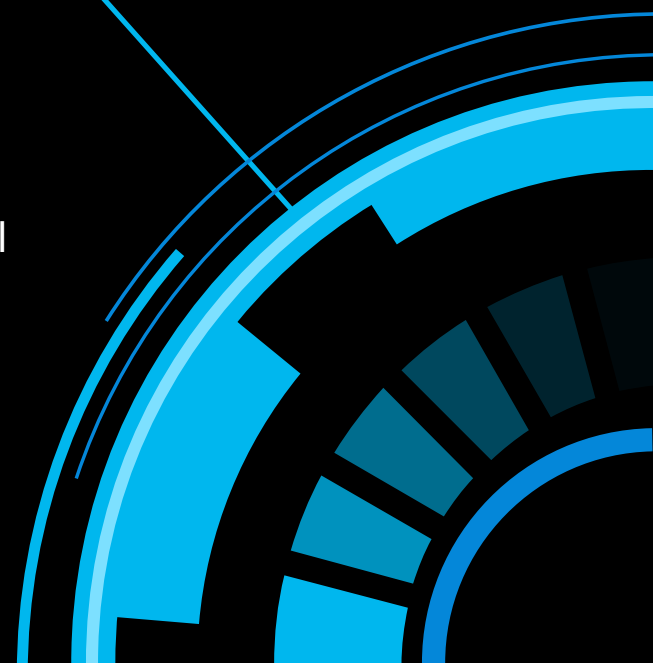
Blockchain Sharding

Parallel Processing

ChainReactor uses Blockchain Sharding technology to increase transactional loads

Blockchain Sharding creates smaller Reactors as a horizontal partition of data

The main decentralized Reactor coordinates read and write activities


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Elements

Base Cryptographic Asset

ChainReactor's native cryptographic asset, Element, is the base asset

Element features include:

- ✓ Transaction fees are destroyed
 - ✓ Decay for accounts not maintained over period of time
 - ✓ Zero Balance data removal
 - ✓ Multiple application mining for a single cryptographic asset
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Proof of Work

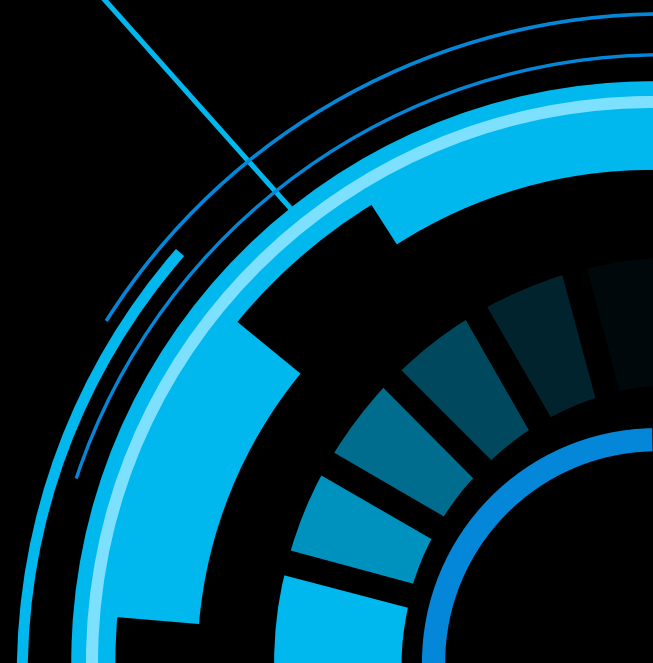
Miner Node Compensation

ChainReactor allows the nodes compensation for services provided in the form of Cryptographic Assets

Rewards can be given in Elements or user defined Cryptographic Assets

Each block provides a reward of Cryptographic Assets

Blocks can be found in parallel, increasing computing power



Arms Race

Miners

ChainReactor has eliminated the hashing arms race. The features are the following:

- ✓ Single node mining only - pools are not allowed
- ✓ Single speed for miners - multiple targets can be mined simultaneously by using multiple chips at the speed limit
- ✓ Multiple block Targets - each ASIC chip can mine a different block

Decentralized Exchange

ChainReactor allows for decentralized exchange of native cryptographic assets. Phase 2 release will incorporate the following:

- ✓ Bitcoin
- ✓ Ether
- ✓ LiteCoin

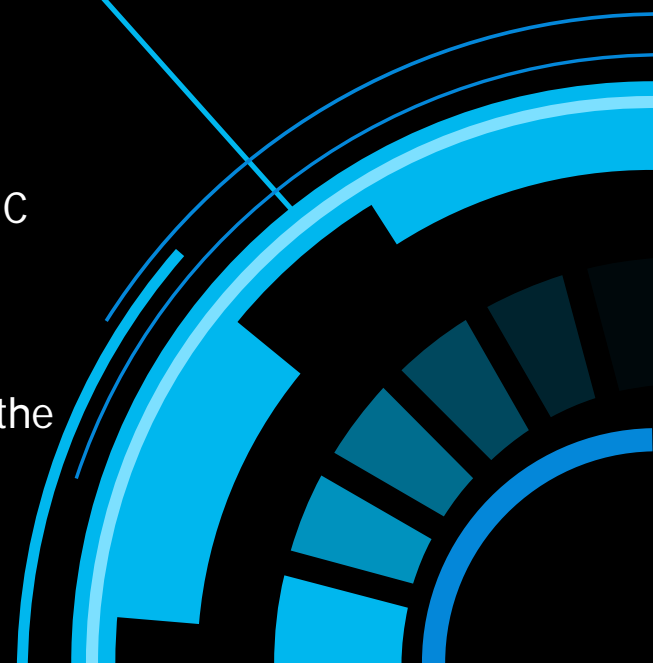
...and more....

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Security

Hardware

Built into the ASIC technology are a number of key security features:

- ✓ The ability to change algorithms on the fly - only our ASIC chips can do this. This feature can not be duplicated by other manufactures.
 - ✓ Digitally signed Serial Keys that can only be changed by the manufacturer.
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Security

Hardware Wallet

ChainReactor has a physical digital hardware wallet that can hold encryption key pairs that can not be hacked.

User interaction with the keys is performed on the wallet, creating an "air gap" to guard against malware and hacking.

It will also be used for Decentralized Exchange of cryptographic Assets.

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ASIC (application-specific integrated circuit)

Hardware History

ChainReactor uses ASIC technology originally designed for Bitcoin – the original Blockchain. Specialized instruction sets – Firmware – that run on the chips were modified for ChainReactor.

40,000 units were previously sold to consumers

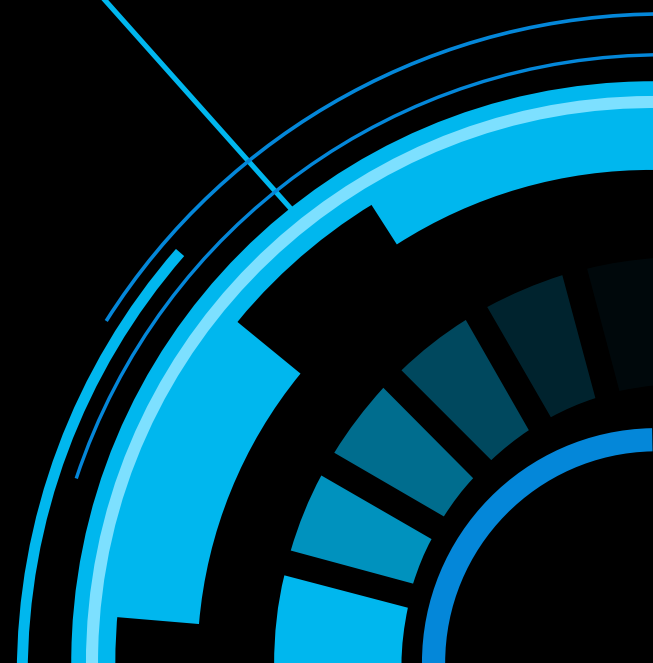
Units can only be used for ChainReactor after they have been flashed by a technician for a fee, after which they become proprietary for use with ChainReactor. We currently have 400 assembled units, and 90,000 chips available.



Design and Manufacturing Hardware Capability

ChainReactor has several leading ASIC and hardware designers

ChainReactor can manufacture, assemble and deploy hardware globally

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Always On

100% Available

ChainReactor can suffer a 98% network loss and remain functional.


Gartner, Inc. on the financial cost of enterprise system downtime

"Based on industry surveys, the number we typically cite is \$5,600 per minute, which extrapolates to well over \$300K per hour."



Cloud Database Engine

ChainReactor is positioned to be the premier trusted cloud database engine.

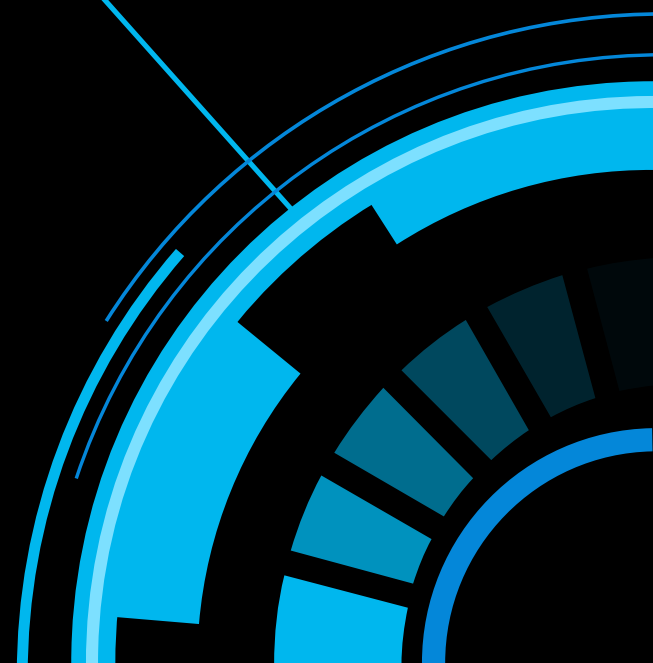
- ✓ High Availability
 - ✓ Software Defined Storage (SDS)
 - ✓ Software Defined Networks (SDN)
 - ✓ Data Encrypted (at rest or in motion)
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In Concert with

ChainReactor can work in concert with all other blockchain technologies, with minimal integration effort

- ✓ Bitcoin
- ✓ Entherum
- ✓ R3

...and more ...

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Vertical Market Opportunities

ChainReactor is a platform for disruptive platforms in vertical markets

- ✓ Multi-Listing Services (MLS) for Real Estate
- ✓ Asset Exchanges
- ✓ Service Exchanges (e.g. Genncapp.com)
- ✓ Advertising (e.g. ClickBoxes)

... and more ...



Collaboration Partnerships



Gencapp
The Internet of Work



IDERA
NEVER. SLOW. DOWN.



CLICKBOXES

Management Team

Founding Partners



Derick Smith

CEO

30 year veteran of IT industry with cross industry experience on 4 continents.

Extensive payment systems experience, including smart cards, and inventor of one of the first mobile POS terminals and high speed transaction switching engines.



Jonathan Nelson

CTO

Sr. Data Systems Engineer for innovative technology companies like Perot Systems and IBM. He has worked on many high profile projects for VW, Chrysler, Google and Capital One just to name a few. He specializes in high performance data architecture and WAN clustering.

Jonathan led the first Fintech proof of concept in 2012 to explore using blockchain technology for banking.



Raj Rajagopal

CEO (Asia)

Banking and business credentials in structured finance, and with a large network in finance in Asia.

Innovator in precious metals and derived financial instruments, large scale project finance and commodities.



Thank you

We Are Fundraising – Let's Talk

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