

THE FUTURE OF CRYPTO WALLET

How Wallet 3.0 Can Impact on Financial System?

- 후원사 – 키페어 [이창근 대표]



Background



암호화폐지갑이란? / SW,HW 월렛/ Wallet3.0?



What's Crypto Wallet for?

일상에서 쓰는 지갑은 현금을 넣고 보관 하지만

가상화폐 지갑은 보유중인 코인을 개인키를 이용해 안전하게 보관하고 백업을 제공해야함.

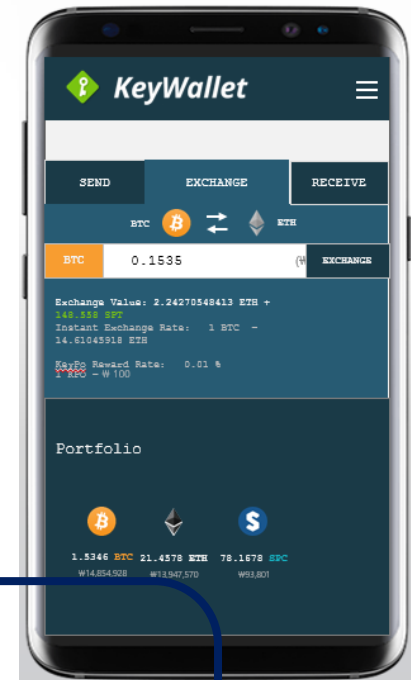
비트코인 지갑은 금고 열쇠, 은행계좌번호, 신분증 등의 역할

- 지갑주소: 은행 계좌번호, 64자리 16진수, 공개키
- 비밀번호: 로그인을 위한 앱 비밀번호
- 지갑 비밀 복구 구문: 뉴모닉 시드, 지갑 복구용으로 따로 보관
- 개인키 : 64자리 16진수 비공개키, 은행계좌 비밀번호

예) 0x17ab45818e71b149160bb83636f648757defebdc

키생성 시나리오

- 개인키 (Private Key)를 생성
- 개인키로 부터 공개키 (Public Key)를 생성
- 공개키로 부터 지갑의 주소를 생성
- 거래를 수신자의 공개키로 암호화 해서 보내면 수신자의 개인키로만 확인 가능, 단 수신자는 개인키를 잘 보관해야함.



SW vs. HW Wallet

S/W Key Management

- Anyone Can See & Use
- Theft /Hacking
- No Legal Binding



H/W Security Module

- HSM/SE Chip
- Physically Secured
- CMVP/EAL5+/CC



Existing Problems of Wallet

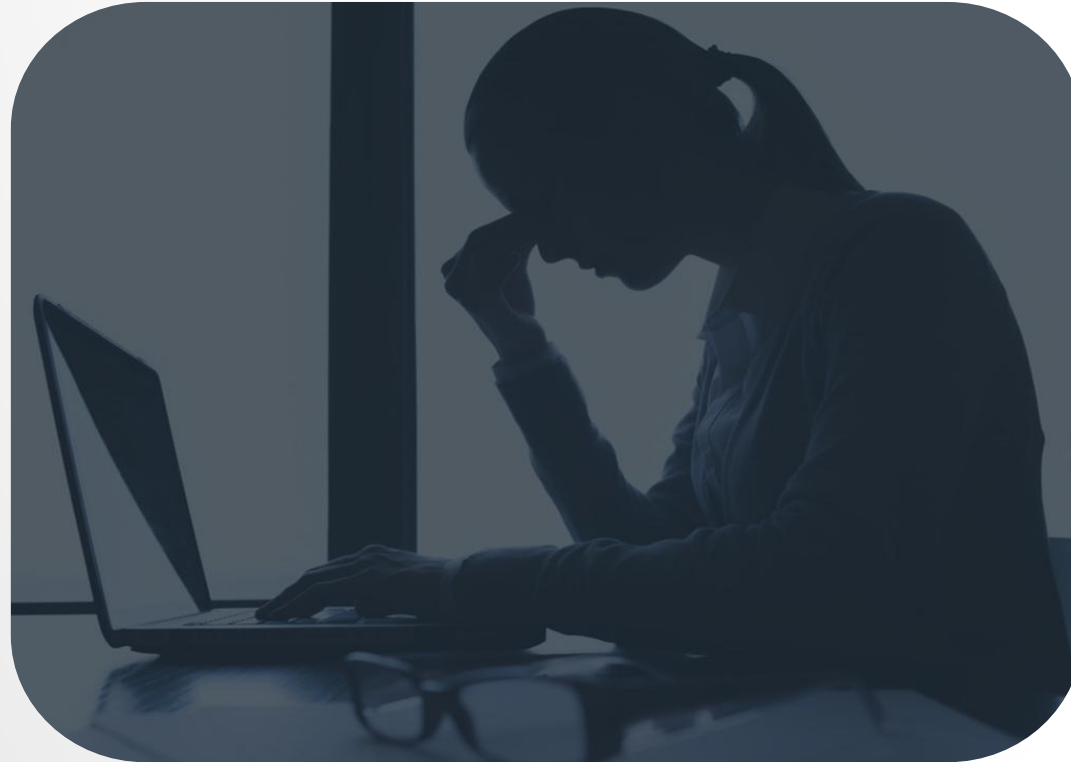
Exchanger/Web

[Hacking]

[A high Transaction
Fee]

[Low Speed of
Transaction]

[Lack of Freedom]



ColdWallet

[Expensive]

[Difficulty in Use]

[Battery/ Wired]

[Durability]

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What's Wallet 3.0?

Wallet 1.0 Ex. Wallet , SW Wallet, Key Storage

Wallet 2.0 DeFi, DAO by Professional Service

Wallet 3.0 Self Programable & Integrated Service

At last, You become an Investment Banker
All Programable for "Platform = Service = Market"

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KEYPAIR PRODUCT

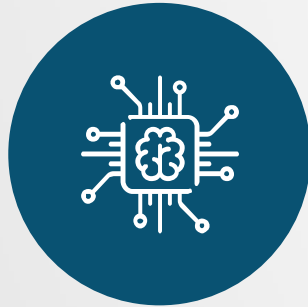


암호화폐지갑 | 커스터디 | 실물자산NFT보증서 | 멤버십NFT | NFT마켓플레이스 | 민팅시스템



Mission and Objectives

안전하면서 스마트한 미래형 자산 매니지먼트 플랫폼



Ultimate Protection



HSM, SE, COS,

암호 라이브러리 원천 기술

순수 자체 기술 암호 라이브러리

KCMVP 보안 인증



Asset Management

SAAGP (Self Autonomous Asset Growth
Platform)

자기 주도형 자산 플랫폼 제공

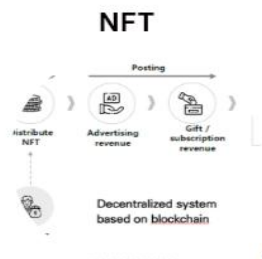
DeFund (Decentralized Funding)

KeyWallet Touch
NFC 카드형 블록체인 지갑, App



Keypair Product Line

Blockchain Wallet



정품 인증 서비스



Wallet API service
고객사의 앱에 키페어 Wallet API 연동



Multi Secure Blockchain Platform (MSBP)



Wallet API service

AI & BigData
AI를 이용한 데이터 분석



KeyWallet Vault
다수의 가상자산을 안전하게 보관
가상자산 커스터디 서비스 전용 장비



DeFi



Blockchain custody

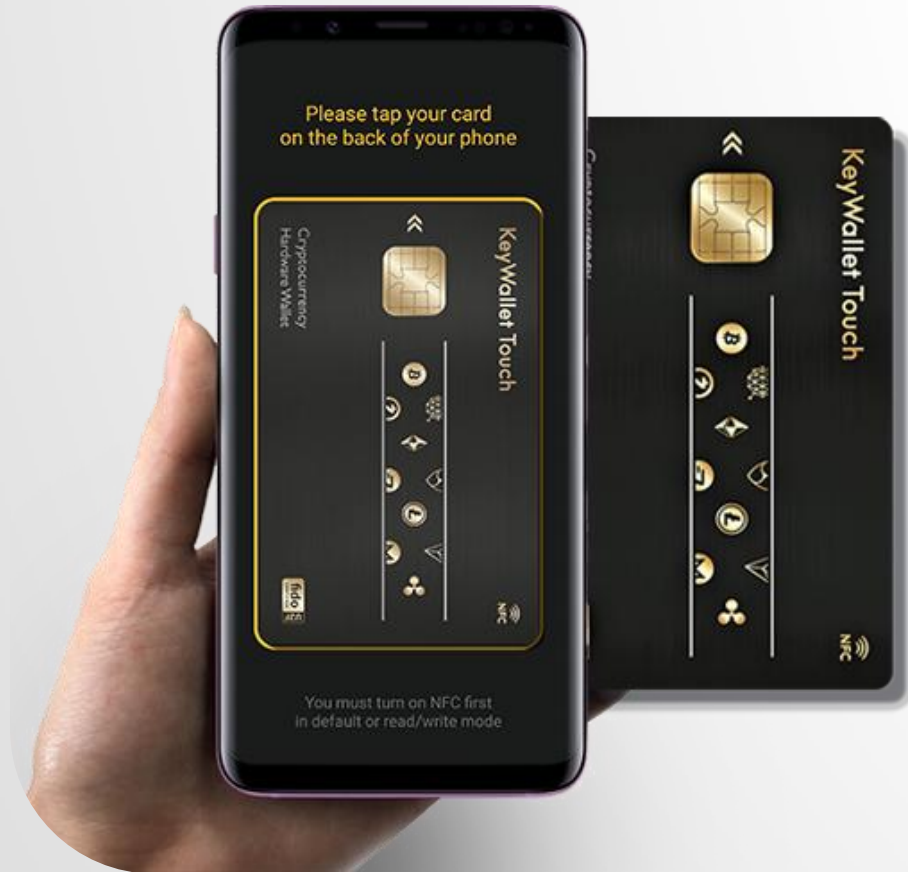
Hardware Wallet Product Lines since 2017



Kepair Co. Ltd. Confidential Information. Can't be distributed to outside without a written consent.

KeyWallet Touch

The World First SE Card Typed Cold Wallet since 2017 has provided maximum protection.



KeyWallet Touch Card Security, Convenient, Durability

✔ Security

- Private Key generated by TRNG and store Secure Element permanently with CC EAL 5+ protection.
- Incomparable protection Physically. CC class.
- No Firmware update required.

✔ Convenient

- Credit Card Typed and Easy to carry
- Communicated thru NFC
- No Battery required
- No Firmware Updated required
- Easy Set up and UI

✔ Durability

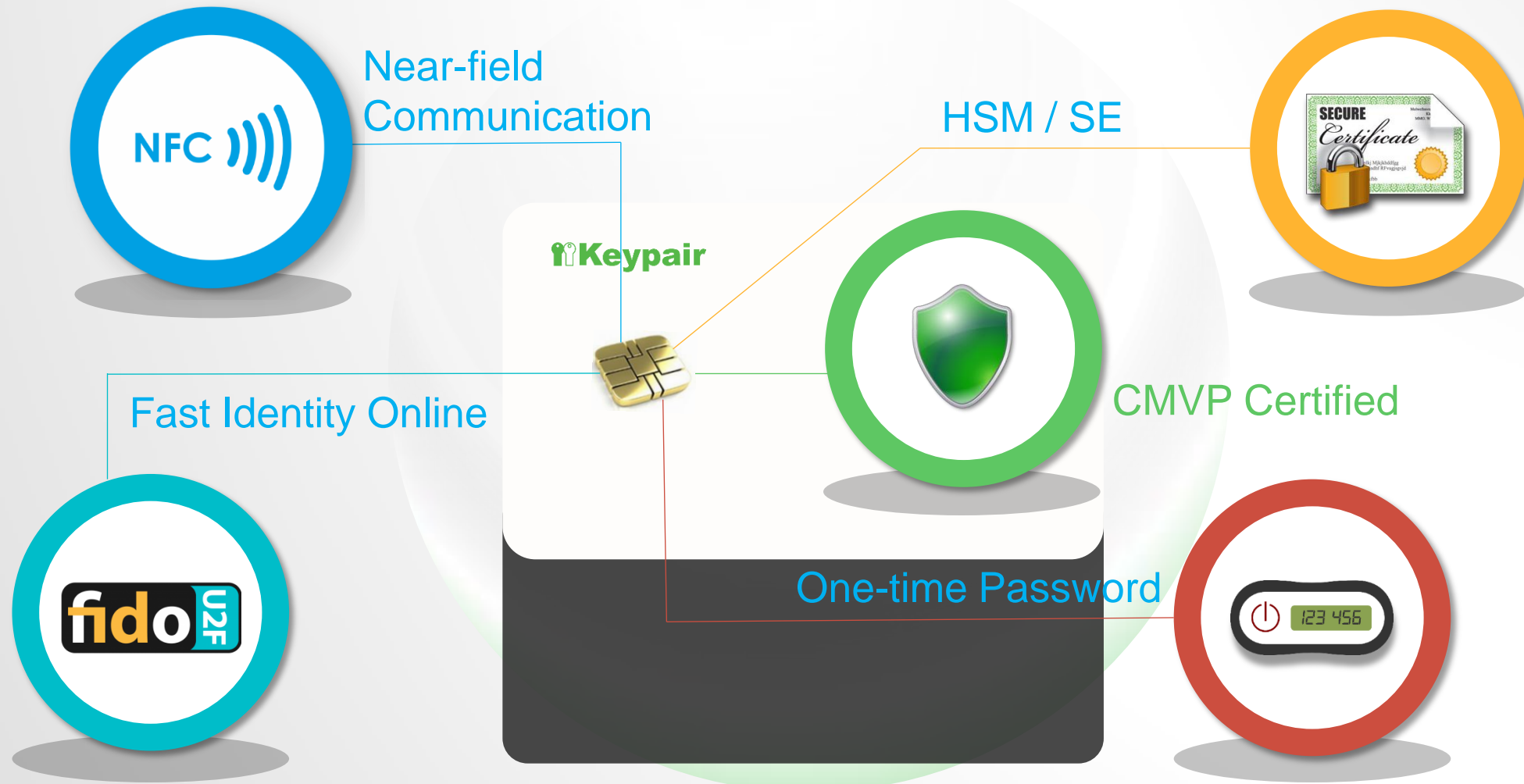
- Work temperature (-25°C ~ 85°C)
- Semi Permanent, Water proof.

What is KeyWallet Touch Card?



Hardware Wallet but simple and easy to use like Software Wallet

Technology Behind



KeyWallet Touch

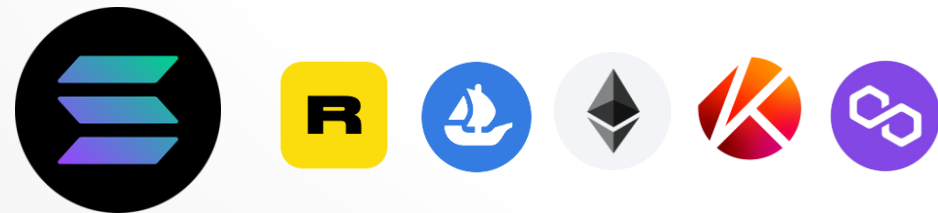
- Support Crypto Wallet & NFTs
- Continue to add new coins and projects.



The applications

✓ Features

- Multiple wallets for upto 100s
- BTC, ETH and more (SOL) come
- Ticker Price Charts
- NFT Gallery/Viewer
- WalletConnect (Opensea, UniSwap etc)
- Customized Wallet
- Multi Sig (UD)
- KYC/AML
- FIDO
- DIDs
- DeFi and more



Applications

NFT Certificate by MetaStone™

The Card enabled to link Real Art with Blockchain

- Publish NFT based Certificate of Authenticity for Art, Paintings and valuables.
- Customized Apps to check ownerships.
- No Knowledge of Blockchain to use the service.



Real Art

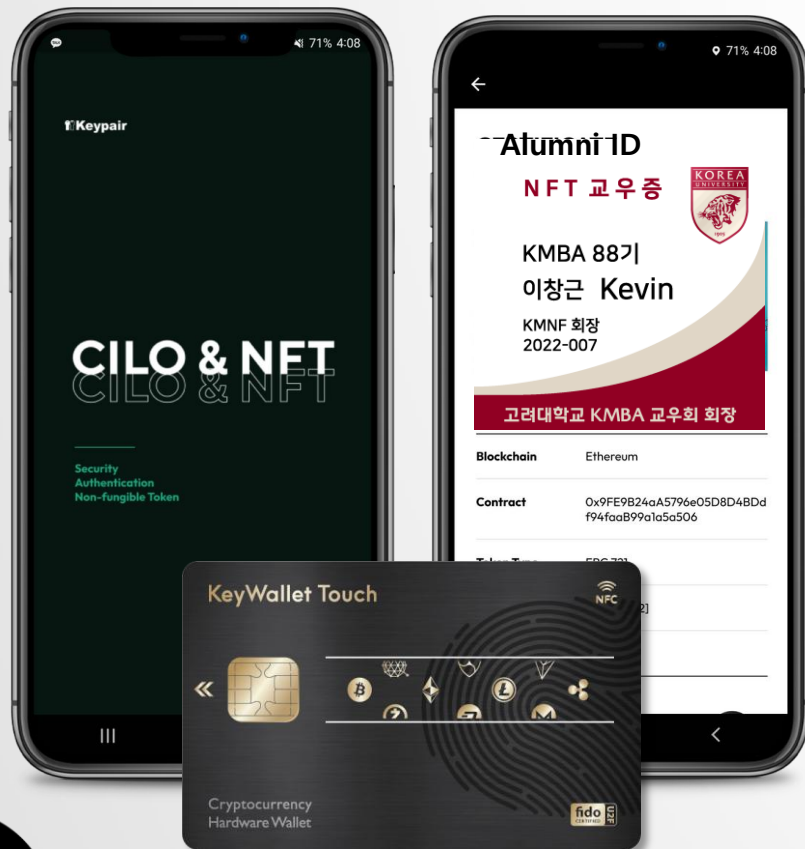


Tap the Card on the phone via NFC



Applications

Gift Card, ID, Membership .



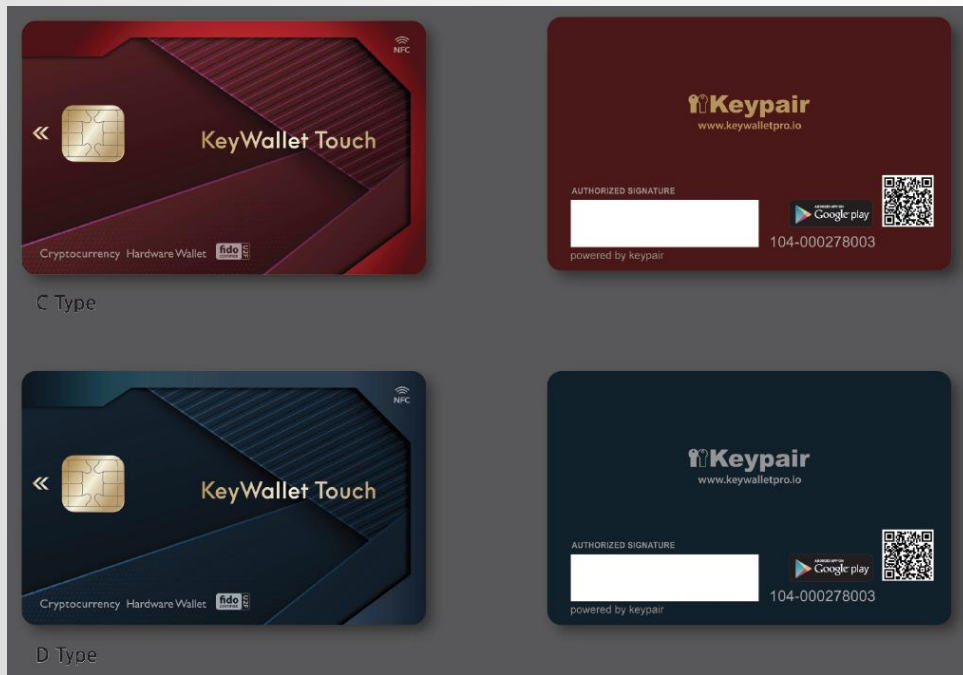
ID & Gift Card

- ✔ One Step Market Place
 - Pre installed NFT card
 - Users can use instantly w/o making wallet.

- ✔ ICO/NFT Project
 - Use for Private Sale and Party
 - Use for OG, WL, DAO

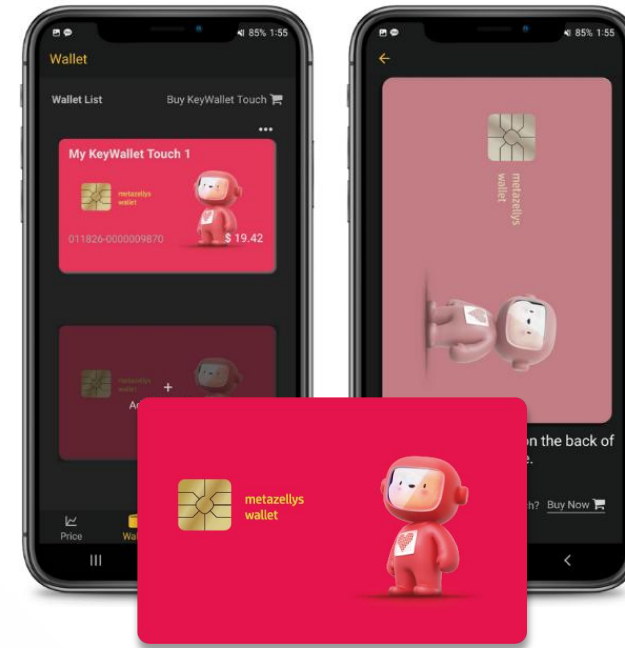
- ✔ How
 - Mint platform📍 Keywallt Wallet Card
 - 📍 Viewer only app or KeyWallet Touch App
 - Air Drop Coupon via NFT

KeyWalletTouch for Whitelabeled Card and App.



KeyWallet Touch

Customized KeyWallet Touch
API, SDK



✔ Customized Design(OEM)

- DIY Platform (UD)
- MOQ Vary.
- Metal, Plastic available.

✔ Where to use

- Provide API and SDK for Marketplace
- Access ID , goods and more
- One NFT => One Card No hassles.

Membership NFT

The Card for exclusively for VIP holders .



✔ Features

- Just give card to new holder.
- Hack free. No SW wallet and Web wallet
- Add to new features on the card.

✔ Where to use

- VIP Membership Service
- Tickets
- NFT Holder Private Party Pass
- New Comers of NFT

Custody : 자신의 자산을 신용가능한 제3자에게 위탁하여 자산을 운용하는 것

기존 회사

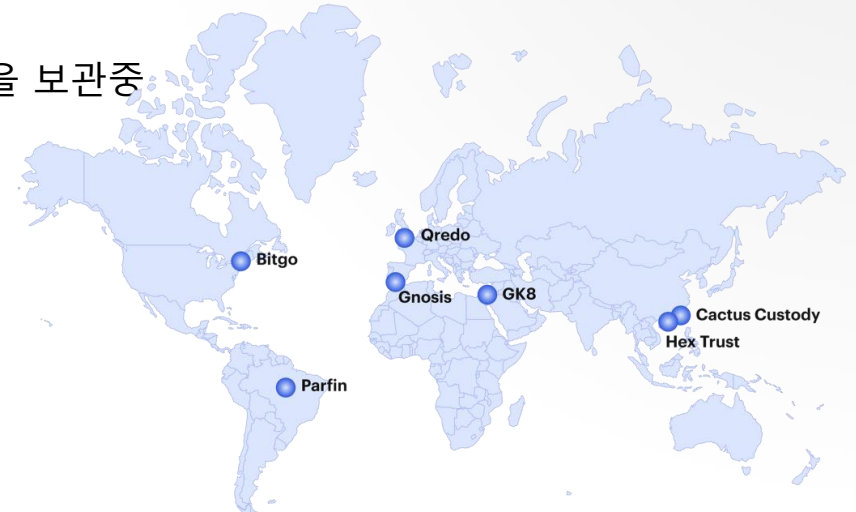
Matriport의 Cactus Custody에서 130개의 기업이 참여하고 있고 100억달러 이상의 자금을 보관중

Fireblock에서 BNP Paribas와 협약하여 8,800개 이상의 펀드의 2조 5천억 달러를 보관중

Gnosis Safe에서 900억 달러 상당의 디지털 자산을 보관중

BitGo는 미국에 본사가 있으며 640억달러 이상의 디지털 자산을 보관중

Hex Trust는 홍콩에 본사가 있으며 50억 달러 이상의 디지털 자산을 보관중



<https://metamask.io/institutions/custody/>

키페어만의 특색 HSM(Hardware Security Module)

국정원 인증 보안칩 KCMVP를 활용한 HSM장치.

금융,항공 우주 및 군사물품에 사용됨

다중 서명이 가능하며 사용자 인증과 다중 백업이 가능



<https://www.keypair.co.kr/pages/blockchain-custody.html>

KeyWallet Vault

Provide Crypto Custody service by our own Secure Element Chipset



Custody Platform

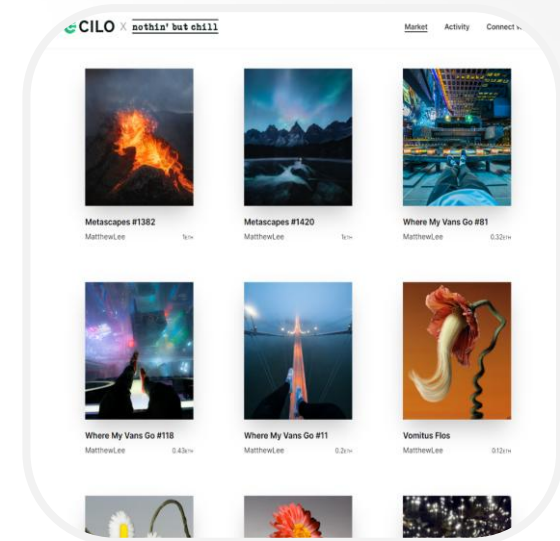
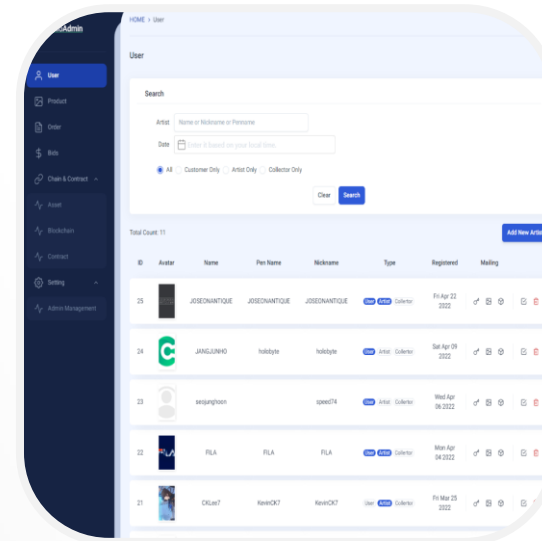
✔ About KeyWallet Vault

- Custody Platform for Enterprise
- Same chipset used for banks and government
- Secure Element (CC EAL 5+)
- Multiple mainnets
- Scalable - millions of Keys
- 2+ factor
- Mult backup
- Mult Sig
- 1U 19" Server rack

NFT Market Place

Provide NFT 마켓플레이스 "Cilo Marketplace"

Minting at Cilo Marketplace



✔ Direct link to Keywallet Touch

- Easy and Quick Access to KWT

✔ Minting

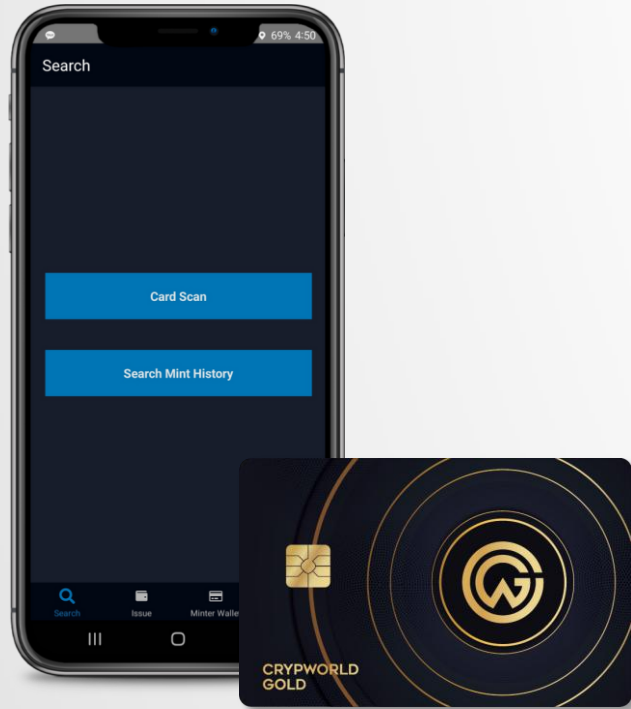
- English and Dutch Auctions

✔ Multiple coins

- Eth, Clayton, Polygon and more

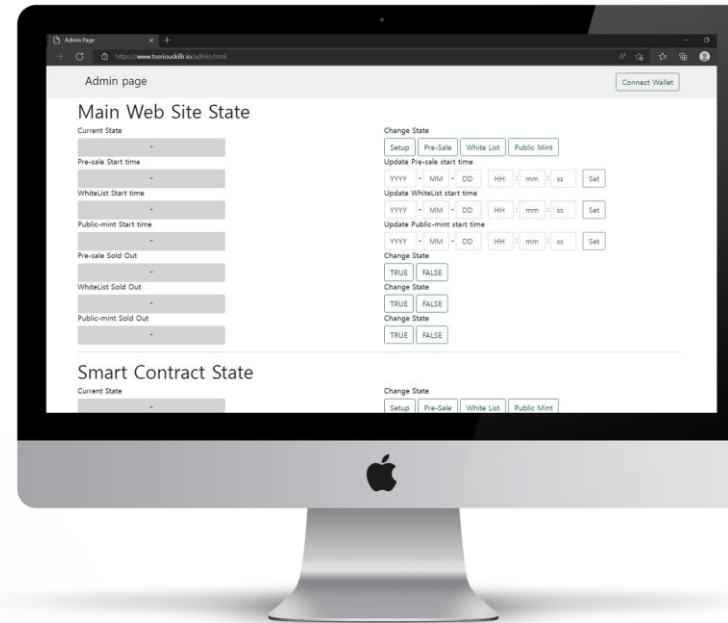
Minting System

Provide minting system for App and Web version.



✔ Instant Minting from Mobile App

- Customized Easy Minting on your hands
- No tutorial required.



✔ Web based Minting Service

- Multiple mainnets
- Apply Coin and NFT projects
- One stop service for Minting, Admin page, Walet connect
- OG, WL, Pre-Minting, Air-Drops

COMPANY OVERVIEW



회사개요 | 회사연혁 | 코어기술 | 주요사업





CI	
Founders	Kevin CK Lee, JY Lee Ph.D.
Founded	2011
Focused	IoT Securities, Blockchain
Address	Gangnam, Seoul, Korea
Telegram	@KevinLeeKeyWallet
Web	keypair.co.kr keywallet.co.kr cilo.kr

Kevin CK Lee (Left)

Co-Founder

- CEOs start-ups incl. Reakosys & NeoMtel successfully led to M&A and IPOs.
- Lead Business Development at Lucent Technologies, Yurie System and Samsung Electronics
- BA from Iowa St. U. and MS in Information Security & MBA from Korea University



JY Lee (Right)

Co-Founder

- Served CTO / Key architect and software / hardware programmer at Ellipsys, Keystone over 20 years of experience in IT security.
- Ph.D in Cryptography & MS in EE from Korea University
- Adjunct Professor at Korea University

회사 연혁

키페어는 2011년에 설립되어 지난 10년간의 연구개발 및 투자를 통해 IoT 보안과 블록체인에 특화 된 기업입니다.



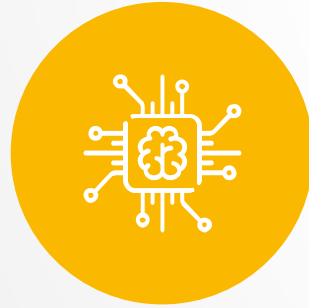
코어기술

암호 전문가로 구성 된 키페어는 보안을 기반으로 블록체인 시장에서 강력한 영향력을 발휘하기 위해 노력하고 있습니다.



보안솔루션

암호 라이브러리 원천 기술
순수 자체 기술 암호 라이브러리
KCMVP 보안 인증



보안 칩

Native Smart Card COS
JAVA Smart Card Applet
HSM(키 관리)



블록체인

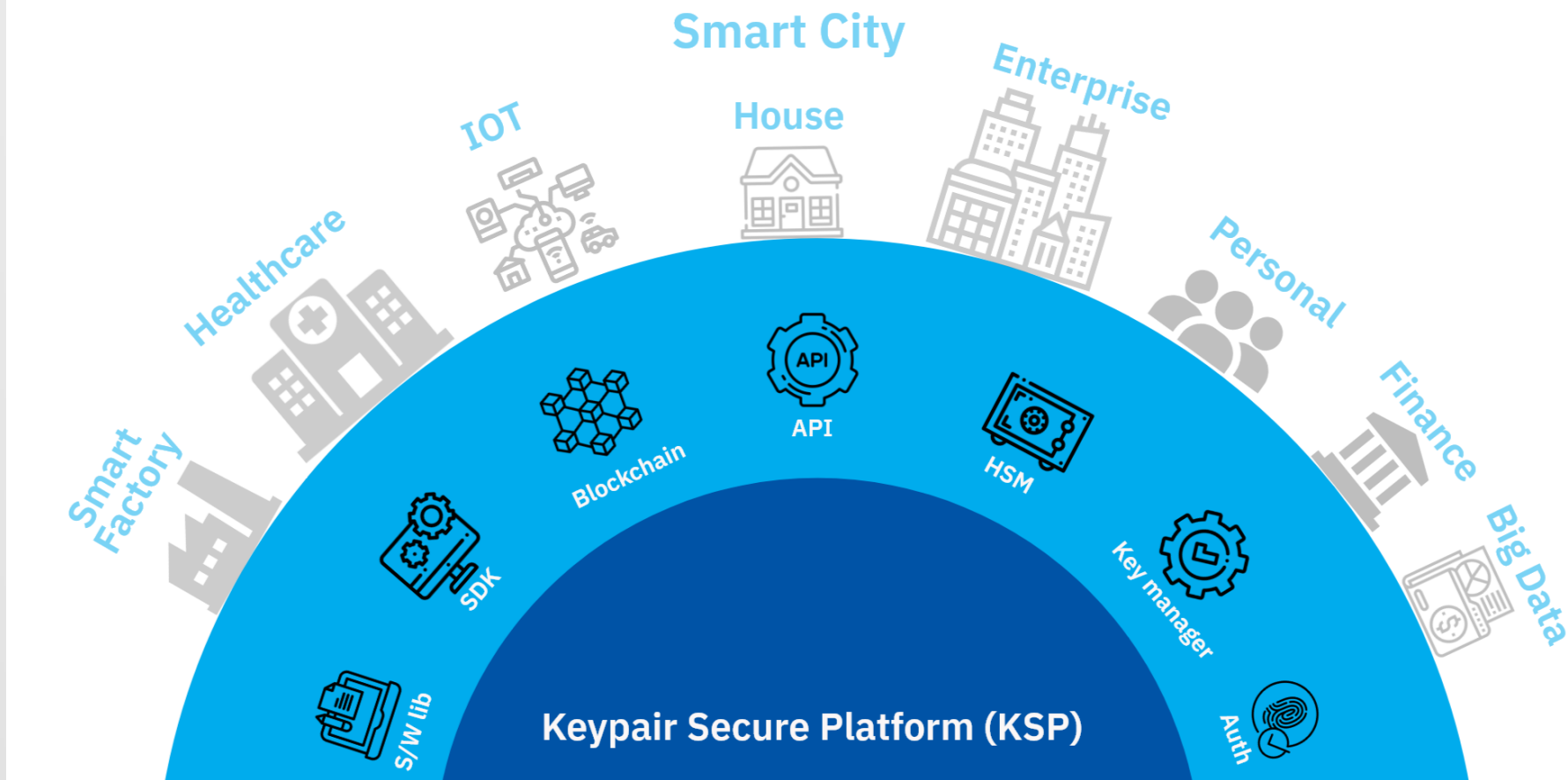
보안 칩 기반 하드웨어 지갑
보안 칩 기반 커스터디 서비스
스마트 컨트랙트



하드웨어/펌웨어

하드웨어, 펌웨어 설계 기술
NFC 무선통신 기술
고객의 요구사항에 맞춘 설계

Securing the Digital Future



주요사업

보안 및 보안칩을 기반으로 신뢰성이 높은 하드웨어 지갑 및 커스터디 솔루션을 확보하였으며
실물자산 NFT 보증서, 멤버십(DAO) NFT, NFT 마켓플레이스 등 다양한 솔루션을 제공합니다.

KCMVP 보안 모듈

한국전력 AMI 사업
그린뉴딜 사업
수도/열량계 보안 사업

KCMVP 보안 모듈

군/관 보안 강화 사업
(드론, 무전기, 발전소 등)



암호화폐 지갑

보안 칩 기반 하드웨어 지갑
소프트웨어 지갑
전용 애플리케이션 DeFi

NFT

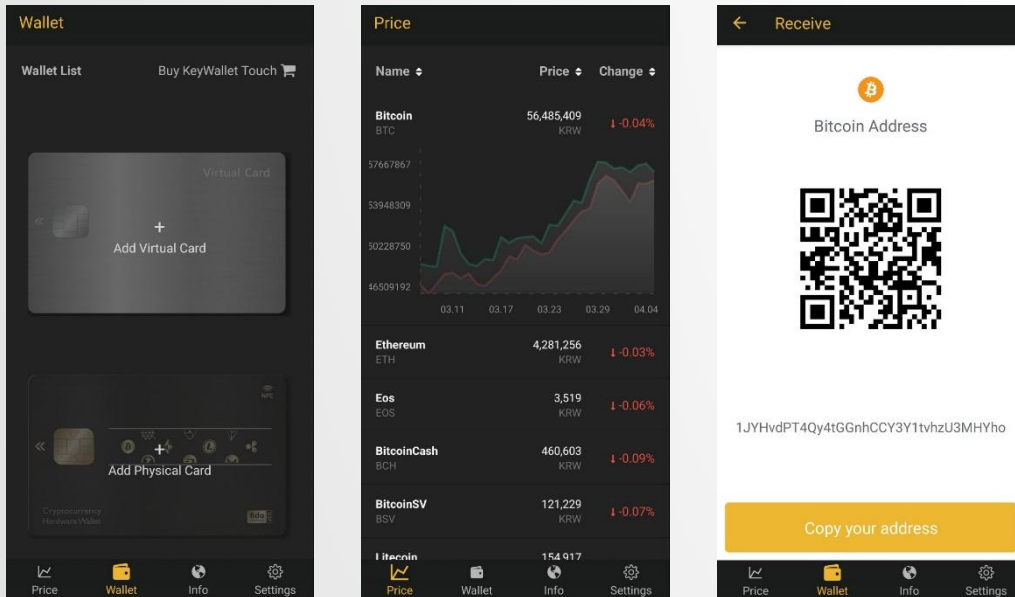
실물자산 보증서 (MetaStone)
멤버십 NFT
NFT 마켓플레이스
민팅 시스템

커스터디

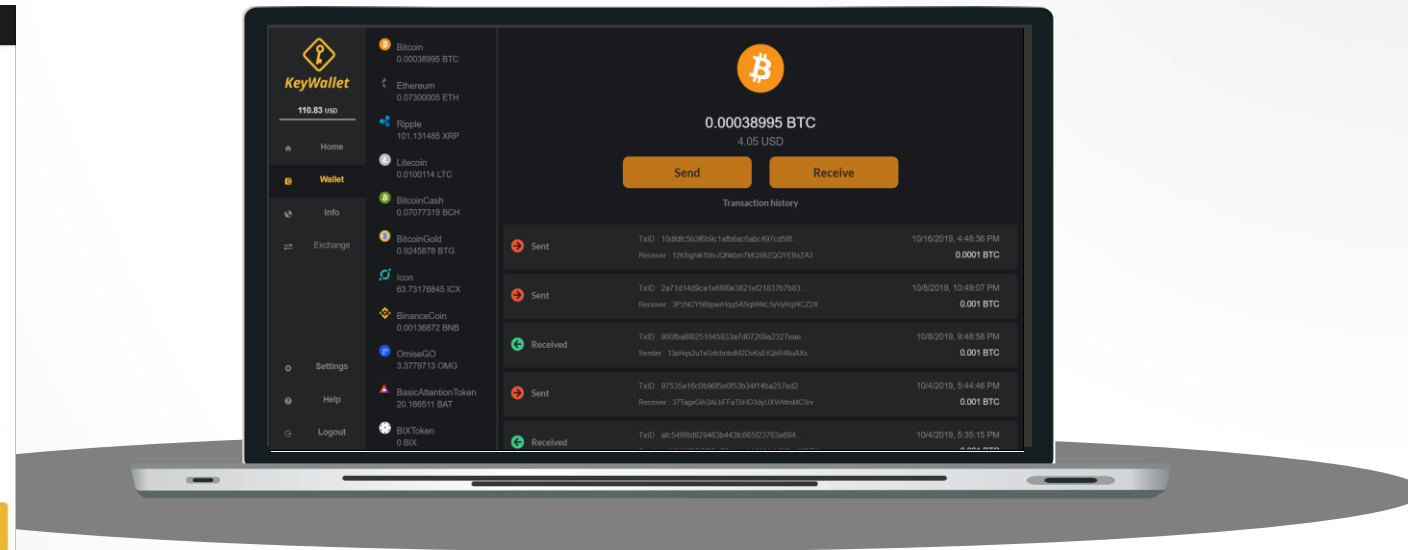
암호칩 기반 커스터디

The Uniqueness' of KeyWallet Series

Mobile



PC



- ✓ NFC typed HW Wallet on the APP for both Android and iOS
- ✓ Hot Wallet App
- ✓ Multiple Wallet support
- ✓ Support on PC and hooked with Reader.



KeyWallet Touch



Specification

Model Name	KeyWallet Touch
CPU	16-bit RISC Core
Size	85mm(W) x 54mm(D) x 0.8mm(H)
Weight	5.4g
Temperature	-25°C ~ +85°C
Support OS	Android, iOS, Mac, Windows 7, 10
Interface	ISO14443, ISO7816
Certificated	FIDO U2F, CC EAL5+

Feature

- The hack-free from external attack
- Cold Wallet / Hardware Wallet
- NFC card type
- Compatibility for Smartphone
- No Battery Required
- Backup/Recovery Sheet
- Multi Currency
- A FIDO certified U2F Authenticator

KEYWALLET READER



Specification

Model Name	KeyWallet Reader
MCU	Cortex M0
Size	75mm(W) x 75mm(D) x 13mm(H)
Weight	53g
Temperature	-40°C ~ +85°C
Power	DC5V, 500mA(max)
Support OS	Android, Mac OS, Windows 7, 10
Interface	USB2.0 (Full Speed), ISO7816
Certificated	KC, CE, FCC

Feature

- Card reader for KeyWallet Touch
- Compatibility for PC
- USB2.0 full speed interface
- Micro USB type B connector
- Plug and play
- USB custom HID interface
- Supports ISO 7816 T=0 protocol
- Compact design
- Supports Windows

