Pure Wallet

Empowering Secure Transactions Beyond Connectivity

Decentralized Wallet. Freedom Powered by Offline.

Offline is the most disruptive technology of our time, serving as the missing link between **quantum, AI, and global adoption.**

Pure Wallet

As quantum and AI accelerate and Web3 reshapes the internet, one thing is clear: the future needs protection. Pure Wallet and Pure Chain deliver secure, decentralized, offline infrastructure — the foundation that enables true privacy, trust, and real-world integration. In a world where constant connectivity means constant risk, offline technology becomes the key to stability, security, and responsible growth across quantum, AI, and Web3.

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Pure Wallet

WHY PURE WALLET

Crypto & Stablecoins Still Depend on Centralized Payments

Despite being decentralized in theory, most cryptocurrencies and stablecoins still depend on centralized payment infrastructure.

THE STRUCTURAL PROBLEMS

High Fees

Designed for P2P, but gas fees make USDT and USDC hard to use for micro transactions.

No Real-Time

High demand slows public chains, disrupting micro transactions and daily use.

Central Reliance

USDT and USDC were built for P2P, but now sit in exchanges as trading assets, with lost accessibility and control.

OFFLINE WALLET COMPARISON

	Non-Repudiation	Encryption of Private Key	Offline Transaction	Gas Fee	TPS	Untraceable Transaction History
Pure Wallet Offline Wallet	✓	AES-256	✓	Free	Unlimited	✓
Pure Wallet Hot Wallet	✗	AES-128	✗	Pay-to-Use	Up to Network	✗
METAMASK	✗	AES-128	✗	Pay-to-Use	Up to Network	✗
SafePal	✗	AES-128	✗	Pay-to-Use	Up to Network	✗
coinbase	✗	AES-128	✗	Pay-to-Use	Up to Network	✗

The World's First ISO-Certified Offline Blockchain Wallet

All-In-One Crypto Wallet with Hot, Cold, and Offline Modes

SOLVED BY PURE WALLET

Zero Gas Fees

Pure Wallet eliminates gas fees, allowing users to make micro transactions freely and efficiently.

No Internet Needed

Enables secure signing and approval without internet, allowing stablecoin use without delays or connectivity.

Decentralized

Pure Wallet enables full asset control through P2P transfers, eliminating exchange dependency and restoring stablecoins as real, usable currency.
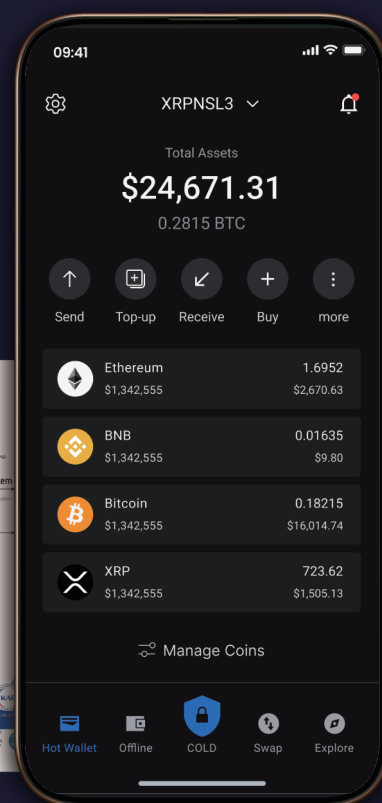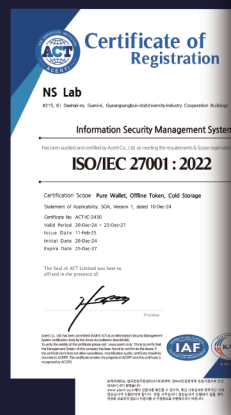
COLD WALLET COMPARISON

	Offline Transaction	Security Level	Minimum Access Requirement	Add-on Required	Gas Fee	Price	Security Feature
Pure Wallet	Possible	128 x n (number of tokens)	Private Key + User Device	H/W not Needed	Free	$39.95	PQC and AI
LEDGER	N/A	128	Private Key	Hardware Required	Pay-to-Use	$270	BOLOS
TREZOR	N/A	128	Private Key	Hardware Required	Pay-to-Use	$169	Open Source
BitBox	N/A	128	Private Key	Hardware Required	Pay-to-Use	$120	Password, SD card
Coinkite	N/A	128	Private Key	Hardware Required	Pay-to-Use	$219.99	SD card

Pure Chain

Blockchain Ecosystem of Pure Series

Pure Chain is the technological backbone of the Pure Series, providing security, autonomy, and offline functionality across all products.

Pure Contract

Pure Wallet

Pure Certificate

Pure Pet

Pure Chain

Pure Ticket

The World's First Auto-Mining Blockchain

Blockchain Life 2025

OCTOBER 28-29
DUBAI, UAE

Blockchain Life 2025

Unveiling SAM[+] : The Future of Blockchain begins with Pure Chain

On October 28, 2025, Pure Chain will launch SAM[+] the world's first auto-mining blockchain built into Pure Wallet.
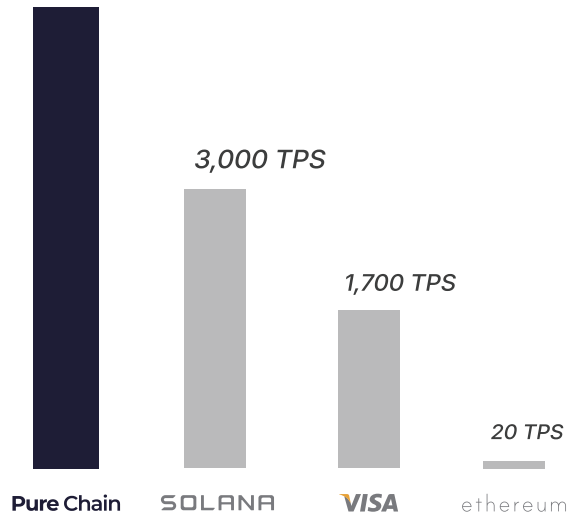
Debuting at Blockchain Life 2025 in Dubai, it marks a new era in sustainable, self-operating blockchain technology.

AI Quantum-Secured Auto-Mining Blockchain System Powered by PoA^2

Pure Chain Makes Offline Transactions Lightning-Fast

UNLIMITED TPS
Network Independent

3,000 TPS

1,700 TPS

20 TPS

Pure Chain   SOLANA   VISA   ethereum

Smart Auto Mining$^+$ (SAM$^+$)

Energy-efficient mining technique that shortens transaction time and lowers power consumption.

Proof of Authority^2 (PoA^2)

AI-driven infrastructure that keeps the network stable and efficient, even during mining interruptions.

Augmented Layer 1

SAM$^+$ and PoA^2 layer that improves Layer 1 blockchain efficiency and reliability.

NSL Layer 2 (NLS-L2)

ZK-Rollup with SAM$^+$ and PoA^2 boosts scalability and cuts gas fees.

Centralized Layer 2 (nsl-cL2)

An industry-focused Layer 2 solution optimized for scalability, security, and offline execution.

Pure Chain Patents & Research Papers

Research Paper

Research Paper

Patent Certificate

Patent Certificate

Blockchain-Side Implementation: An Offline Transaction Architecture
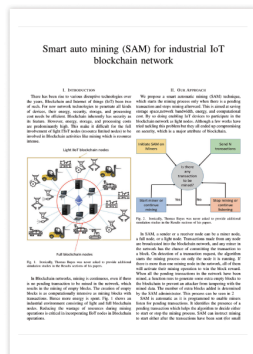
Smart auto mining(SAM) for Industrial IoT Blockchain Network

Automated Integrated Mining Method for Blockchain Wireless Communication Network

Blockchain-Based Mobile Electronic Wallet System

Pure Certificate

Zero-Trust Certification & Military-Grade Security

Blockchain digital certification platform
for defense, government, and enterprise.

Blockchain Security for Defense Test Report, LIG Nex1 Deployed
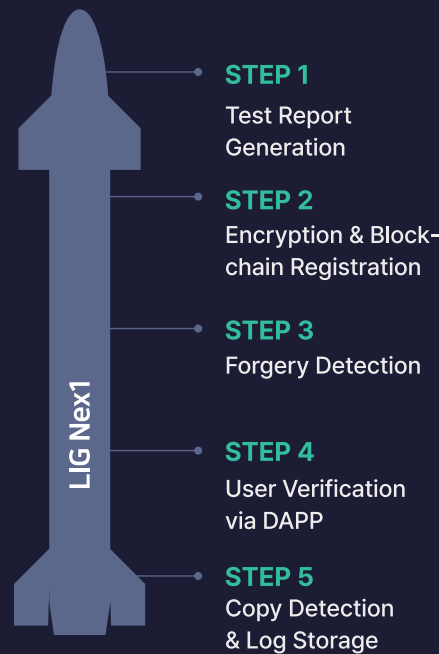
LIG Nex1

LIG Nex1 is a leading South Korean defense company specializing in advanced weapon systems, electronics, and defense technologies.

Tamper-Proof & Forgery Detection

Protects documents from tampering and detects visual forgeries with blockchain and AI-based validation.

Offline Military-Grade Verification

Securely verifies data integrity without internet, providing robust protection for defense and high-security environments.

LIG Nex1

STEP 1
Test Report Generation

STEP 2
Encryption & Blockchain Registration

STEP 3
Forgery Detection

STEP 4
User Verification via DAPP

STEP 5
Copy Detection & Log Storage

Pure Certificate Solution

- Blockchain-Based Digital Certification System
- DoD-Level Integrity Assurance
- System-Independent Architecture
- Encrypted & Decentralized Data Storage
- Perceptual Hash-Based Forgery Detection
- Smart Contract-Driven Auto Verification

Proven Deployment

- Successfully Implemented in LIG Nex1's Defense Operations
- Automated Document Verification for DAPA* Submissions
- Meets Security Standards Required by ADD**

* Defense Acquisition Program Administration
** Agency for Defense Development

Pure Contract

Blockchain-Secured Contracts Beyond Digital Limits

Enables secure contract creation and verification, both online and offline.

Defense & Industrial

Ideal for secure facilities, remote sites, and defense or industrial use.

Finance & Healthcare

Designed for high-security environments such as defense, finance, and healthcare.

Government & Law

Immediately applicable across construction, manufacturing, government, and legal sectors.

Network-Free Smart Contracts

Securely stores smart contract results without internet access. Ideal for secure facilities, remote sites, and defense or industrial use.

Military-Grade Key Security

AES and SHA encryption safeguard all signing keys, making it ideal for defense, finance, and healthcare.

Pure Contract Realizes the DoD's Vision for a Tamper-Proof and Trusted Infrastructure.

U.S. Senate recommends Pentagon to introduce blockchain technology

Pure Ticket

Reinventing Ticketing with Blockchain & AI

The Next-Gen Anti-Scalping Platform Built for Fair Access

Blockchain Security

Decentralized management with NFT verification

AI-Powered Protection

Advanced scalping prevention and fraud detection

Efficient Operations

Streamlined ticketing process for venues and events

CJ LiveCity x Pure Ticket: Decentralized Scalping Defense at Scale

1

Ticket Purchase

- Encrypted Storage of User Data & Payment History

2

Blockchain Issuance

- Smart Contract Issuance

3

Storage & Validation Layer

- Decentralized Storage
- Stores ticket data hashes for integrity verification without a central server.

5

Analytics

- Tamper-Proof Data
- Anomalous Transaction Analysis

4

Entry Validation

- Real-Time Ticket Authentication
- Offline Ticket Validation

Pure Ticket Build the Technology that Makes This Vision Real.

"We need ticket systems that put fans first — not greedy resellers."

— Donald J. Trump, 2024 Campaign Rally with Kid Rock

Pure Pet

Care Powered by Blockchain.
Trust Built on Proof

A pet healthcare platform connected
through digital identity & blockchain

ONE PLATFORM. TOTAL CARE.

Pet
Community

Smart Booking

AI Health
Screening

Pet Owner

Pure Pet Platform
- Digital Identity Issuance
- Medical Record Storage
- Blockchain-based security
  & guaranteed data integrity

Veterinarian /
Clinic

Access
Health Record

Digital ID
Insurance

Upload
Vaccine Data

Diagnosis
input

Blockchain
Storage
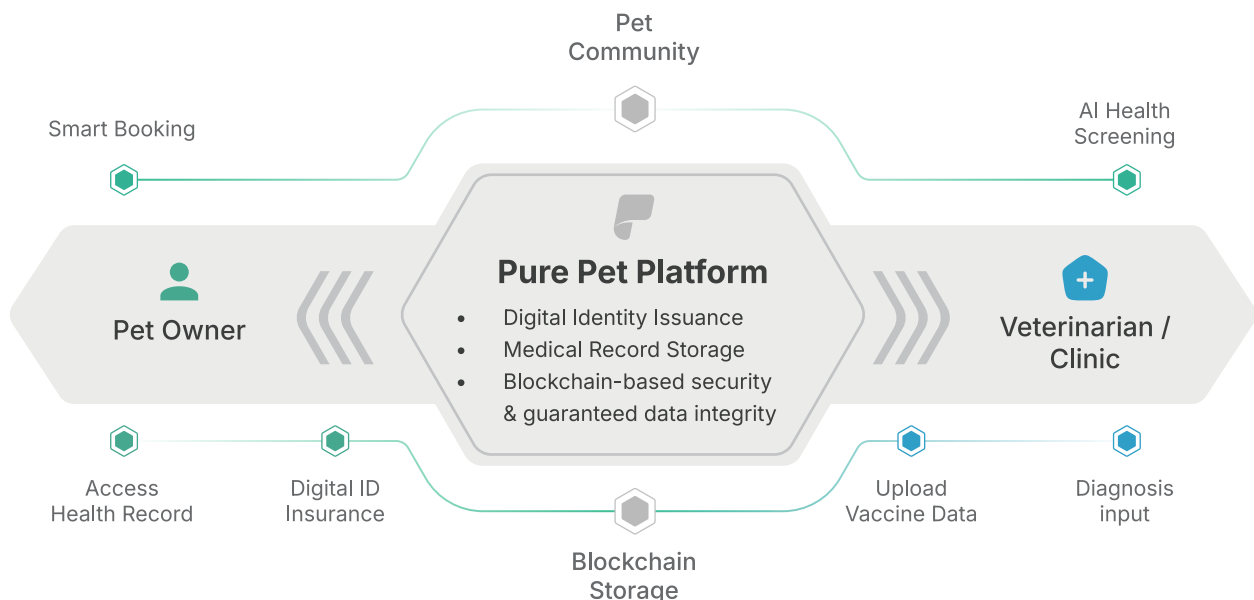
Powered by Pure Chain

Decentralized Storage
Securely store pet medical records and certificates without a central server using IPFS-based decentralized storage.

Smart Contract Integration
Automatically record medical treatments on the blockchain via smart contracts.

Multi-Clinic Compatibility
Access and verify records through a digital ID, enabling seamless medical data integration across clinics.

Beyond Security. Truly Decentralized

8+
References

Integrating Machine Learning with Proof-and-Association for Dynamic Signer Selection in Blockchain Network, D.-S. Kim, R.Syamsul, ICT Express, 2024

Smart Auto Mining(SAM) for Industrial IoT Blockchain Network, I.S. igboanusi, Allwinnaldo, R. N. Alief, M. R. R. Ansori, J.-M. Lee, D.-S. Kim,
IET Communications, 2022

Proof-of-Authority-based Secure and Efficient Aggregation with Differential Privacy for Federated Learning in Industrial IoT, M. A. P. Putra, R. N. Alief, S. M. Rachmawati, G. A. Sampedro, D.-S. Kim, J.-M. Lee, Internet of Things. 2024

Proof-of-Authority-and-Association Consensus Algorithm for IoT Blockchain Networks, D.-S. Kim, I. S. Igboanusi, L. A. C. Ahakonye, G. O. Anyanwa,
ICCE 2025

Blockchain side implementation of Pure Wallet(PW): An offline Transaction Architecture, I. S. Igboanusi, K. P. Dirgantoro, J.-M. Lee, D.-S. Kim,
ICT Express, 2021

AI Model Stability in Industrial IoT Intrusion Detection: Leveraging the Characteristics Stability Index, L. A. C. Ahakonye, C. I. Nwakanma, J.-M. Lee, D.-S. Kim, Journal of Korean Institute of Communications and information Sciences, 2024

Leveraging Quantum Blockchain for Secure Multiparty Space Sharing and Authentication on Specialized Metaverse platform, E.A. Tuli, J.-M. Lee, D.-S Kim, Scientific Reports, 2024

Pure NFT: A Blockchain-Based Ticketing System with Lightweight AI for Scalping Prevention, G. A. Haryadi, A. Zainudin, J.-M Lee, D.-S Kim, ICCE 2025

22+
Intellectual Property

Type	Title	Number
Patent	Blockchain-based Mobile Electronic Wallet System	10-264318(KR)
Patent	Beacon-based Chat Service System using MQTT	10-1863284(KR)
Patent	Blockchain-based Data Sharing Method for Enhancing Reliability and Security of Distributed System	10-2307973(KR)
Patent	User Device and its Control Method	10-2051539(KR)
Patent	Methods for Encryption and Decryption Contents	10-2154737(KR)
Patent	User Terminal Device and its Display Method	10-2183448
Patent (Pending)	Proof-of-Authority Method for High-Trust Blockchain Network	10-2024-009017(KR)
Patent (Pending)	Proof-of-Authority Method for High-Trust Blockchain Network	PCT-KR2024-010241
Patent (Pending)	Blockchain-based Mobile Electronic Wallet System	18287128(US)
Patent (Pending)	Electronic Wallet System with a Method for Split Offline Tokens for Cryptocurrency Access Using Blockchain	10-2024-0069046(KR)
Patent (Pending)	Blockchain-Based Offline Voting Service Method with Enhanced Security and its System	10-2023-0318385(KR)
Patent (Pending)	Blockchain-Based Offline Voting Service Method with Enhanced Security and its System	10-2023-0318385(KR)
Patent (Pending)	Offline Voting Service Method Using Blockchain and its System	10-2023-0064875(KR)
Patent (Pending)	Offline Voting Service Method Using Blockchain and its System (duplicate)	PCT/KR2023/016024
Patent	Blockchain-Based Mobile Electronic Wallet System	PCT/KR2021/015676
Patent	Auction Method and System for Tracking and Managing a Supply Chain of Non-Fungible Token(NFT)-based Fisheries	10-2023-0064870(KR)
Trademark	Pure Wallet	97631618(US)
Trademark	Pure Wallet	40-2175766(KR)
Trademark	Pure Chain(Class 42)	238010(US)
Trademark	Pure Chain(Class 36)	238009(US)
Trademark (Pending)	P(Class 36)	40-2024-0091512(KR)
Trademark (Pending)	P(Class 42)	40-2024-0091514(KR)
Trademark (Pending)	P(Class 09)	40-2024-0091507(KR)

USA

Nigeria

COLLABORATIONS
Partner Companies

KOREA, SOUTH

LIG Nex1

CJ LIVECITY

Ino·on
The IoT Warehouse

INTERNATIONAL

Qualcomm
[USA]

cognitgo
[USA]

TRIGOPI
[Israel]

Philippine Coding Camp
[Philippines]

POLLY NWOKE & CO.
[Nigeria]

ekotek
[Vietnam]

[Malaysia]

PRIMAKARA
UNIVERSITY
[Indonesia]

Israel

Korea, South

Philippines

Vietnam

Malaysia

Indonesia

EXECUTIVE ADVISORS

Eric M. Jackson

**Fintech Expert &
PAYPAL Mafia Member**

Eric M. Jackson is a former PayPal executive and member of the iconic PayPal Mafia, instrumental in the company's early growth. He later founded and led Web 3.0 startups, leveraging decades of expertise in payments, fintech, and security.

Thomas Pongetti

**Data Processing &
Security Expert**

Thomas Pongetti is a NASA JPL scientist specializing in remote sensing and atmospheric research. He brings expertise in large-scale data analysis and security, advising on data integrity, real-time monitoring, and fintech innovation.

Dong-Seong KIM

**CEO of NSLab & Professor at
Kumoh National Institute of Technology**

Dr. Kim is an expert in industrial IoT, blockchain, Edge AI, and military informatics. His deep knowledge in secure communications, blockchain, and data analysis supports Pure Wallet's security, scalability, and innovation.

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