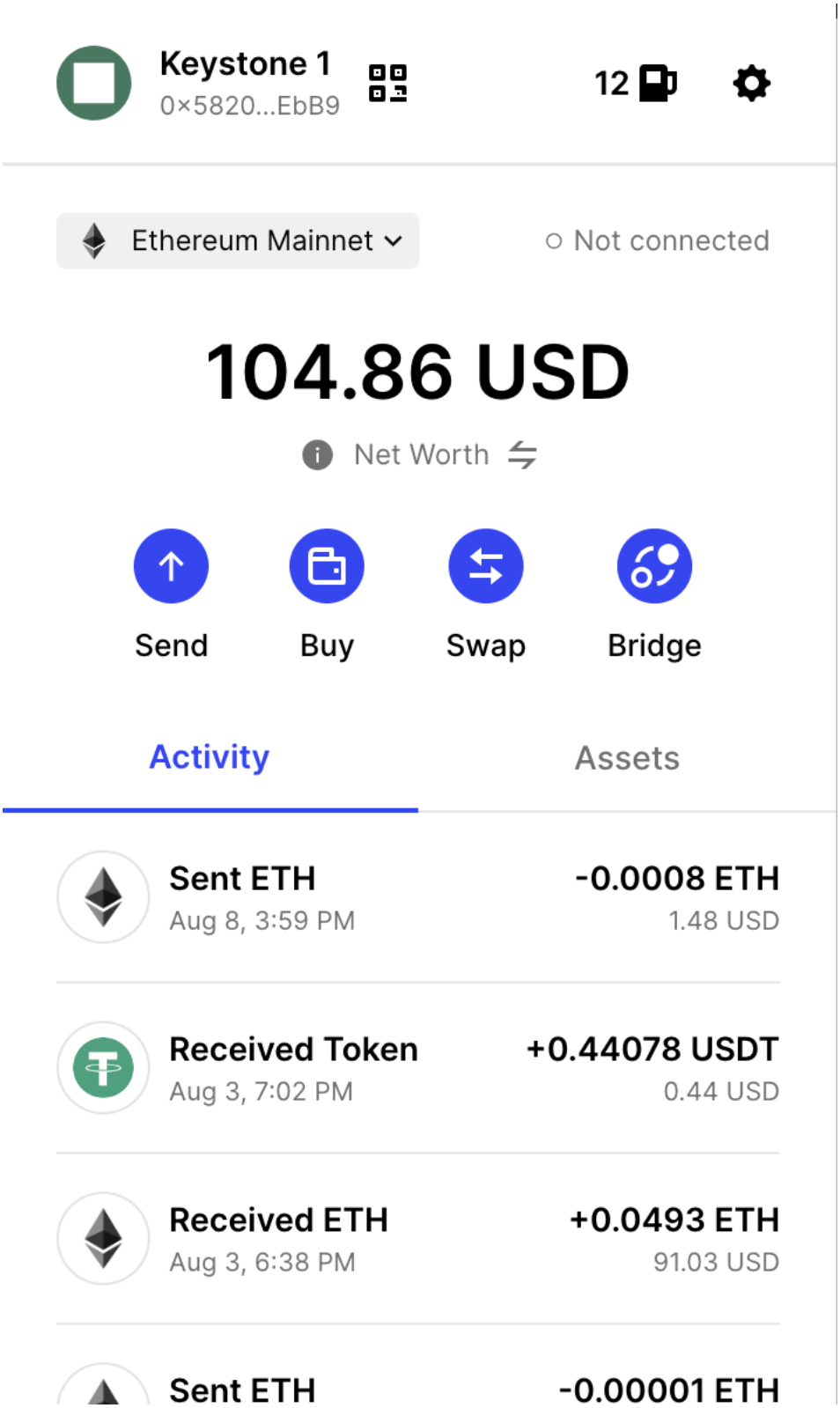
Ethereum Private Key List 24.03.2025



Ethereum is a decentralized blockchain platform designed to run programmable smart contracts and decentralized applications (dApps). Since September 2022's "Merge," Ethereum uses a proof-of-stake consensus mechanism: network validators stake a minimum of 32 ETH to propose and attest blocks instead of mining with specialized hardware.

Each block contains transactions that invoke smart contracts—immutable pieces of code compiled to Ethereum Virtual Machine (EVM) bytecode. Every transaction consumes "gas," measured in units of computational effort and paid in ETH. The EIP-1559 fee model introduced a variable base fee (burned) plus a tip for validators, reducing ETH supply over time and improving fee predictability.

Ethereum private keys are 256-bit numbers represented as 64-character hexadecimal strings (prefixed with "0x"). Addresses derive from the last 20 bytes of the Keccak-256 hash of the public key, often displayed with mixed-case checksum formatting per EIP-55.

Token standards enable interoperability across wallets and dApps. ERC-20 defines fungible tokens, ERC-721 defines unique non-fungible tokens (NFTs), and ERC-1155 supports both types. These standards power decentralized exchanges, lending protocols, and NFT marketplaces.

Ethereum's monetary policy features dynamic issuance: staking rewards compensate validators, while base-fee burning (EIP-1559) removes ETH from circulation. Net issuance has declined significantly since the Merge, occasionally becoming deflationary during high network activity.

Protocol upgrades follow Ethereum Improvement Proposals (EIPs) and activate at scheduled block heights after extensive testing on public testnets. Layer-2 rollups (Optimistic and Zero-Knowledge) address scalability by executing transactions off-chain and settling aggregated state on Ethereum's mainnet, lowering costs and increasing throughput.

Today, Ethereum serves as the leading programmable blockchain, supporting a diverse ecosystem of DeFi protocols, NFT platforms, and decentralized governance applications. Its shift to proof-of-stake has greatly reduced energy consumption while preserving security and decentralization.

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