# WOOKONG Bio User Manual

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# Ⅰ. PRODUCT INTRODUCTION

## 1. About the WOOKONG Team

The WOOKONG Team is a technology-driven startup in the blockchain industry that is dedicated to financial-level security wallet products which are safeguarded by cryptographic algorithms and hardware. The company serves institutional and personal users with its professional and reliable crypto-asset storage and custody services.

The WOOKONG Team is convinced that encrypted digital-assets will not be defined by cryptocurrencies only. Massive personal data, left by everyone, at any time and in every physical and cyber corner has been bred into our *Avatar* in cyberspace—the projection of our track of life, mind, and physical characteristics on the internet. The Team, however, believes that those confidential data shall be owned by each and every one of us, as valuable digital assets, which are encrypted and can be traded anonymously for decent gains.

The WOOKONG Team has realized this great era may have come faster than expected. We do not want to miss the significant opportunity in the history of the Internet and be just a bystander of an influential technical reform. That explains why we are actively engaged in this technology-driven social reform like those curious and adventurous geeks.

## 2. About WOOKONG Bio

As the price of cryptocurrencies skyrockets, the need for a secure assets custody and trading environment is growing. Meanwhile, the safety of crypto-assets is getting more attention:

Coincheck, a Japanese cryptocurrency exchange, was hacked, and a large sum of NEM that worths about $534 million was stolen.

Some technical vulnerability in the well-known Bitcoin wallet Electrotum has caused the exposure of thousands of bitcoin wallets.

The Slovenian mining platform NiceHash was hacked, more than 4,700 bitcoins rifled.
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For individual users, keeping the private key in their hands and keeping it in a safe place can minimize the risk of asset theft.

What is a hardware cold wallet?

For crypto-assets, the private key is the only certificate the user holds for their assets. If the private key is lost, it means that the asset is lost and there is no way to retrieve it.

The hardware wallet is a secure offline device. They can store private keys offline, and the private keys stay "off-the-grid" for good, so they are protected from hackers. This means that your crypto-assets are still secure even when your computers are plagued with malware.

After the institutional hardware wallet solution WOOKONG Enterprise and the desktop personal version of the hardware wallet WOOKONG Solo had been rolled out, the WOOKONG team forged WOOKONG Bio based on the applied technology. Like WOOKONG Solo, WOOKONG Bio uses a bank-level security solution though sized just like a credit card, and it supports Bluetooth or USB connection to varied clients (Android/iOS/Mac/Windows).

# 3. Notice

1. Each WOOKONG Bio meets bank-level safety standards.
2. The private key is kept in WOOKONG Bio and the user has absolute control over it.
3. No one can access the private key, even including the WOOKONG team.
4. Be sure to back up the mnemonic phrases of WOOKONG Bio and keep it safe. This is the only remedy when the hardware is accidentally damaged.

# Ⅱ. HARDWARE SPECIFICATIONS

## 1. Product Overview

WOOKONG Bio is a credit-card-sized hardware wallet for cryptocurrencies. Targeted at users on the mobile end, it boasts outstanding security and integrates fingerprint authentication and Bluetooth communication.

WOOKONG Bio uses a financial-grade secure element to enable seed generation and storage, ensuring the secure management of users' crypto-assets.

The application of fingerprint authentication makes the product more user-friendly while ensuring its safety.

The ultra-thin card form design makes the product more portable and realizes "pocketing a hardware wallet into a wallet".
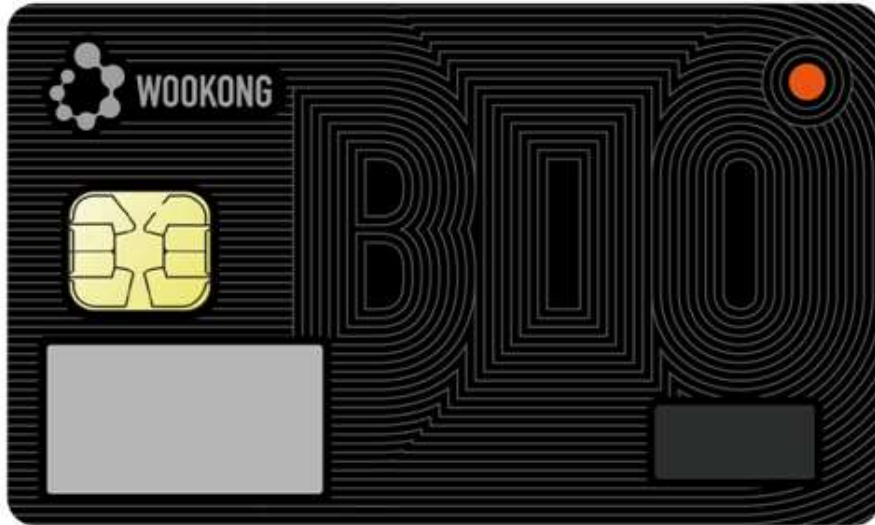
Varied card pattern design and bespoke screen saver meets the fashion and personalized needs of users.

WOOKONG Bio resists the hacking of physical intrusion behaviors trialed by various cutting-edge laboratories around the world, and no one can access the private key, including the WOOKONG team.

Core-level protection and one-time burning technology ensure that critical code is completely tamper-proof.

## 2. Features

1. Kernel algorithm unit - fast and reliable calculation
2. FLASH encryption&scrambling - anti-physical demolition, anti-power monitoring
3. MPU rights management - strict control of code access area
4. New currency can be added under the security sandbox mechanism - BTC, ETH, other ERC20, EOS, USDT, LTC, CYB, ETC, NEO are currently supported

## 3. Specs

Size: 85*54*1.1mm
Material: PVC+PET
Screen: 128*80 E-Ink
Battery: 22mAh
Charging time: 2h
Working temperature: 0 ° C - 60 ° C
Connectivity: Bluetooth 4.0, USB
Supported Platforms: iOS, Android, Windows, Mac
Certifications: CE, FCC, TELEC

# Ⅲ. Initialization

## 1. Download WOOKONG Bio App

Official Website of WOOKONG Wallet: https://wooko.ng

Mathwallet(麦子钱包): http://www.mathwallet.org

Ginco: https://ginco.io/

## 2. Connect WOOKONG Bio (Exemplified by WOOKONG Wallet)



- Choose "Pairing WOOKONG Bio"
- Follow the instructions, make sure the Bluetooth of your mobile device is on, power on

WOOKONG Bio and tap "Start Pairing"



• When the application finds your WOOKONG Bio, click the device name to start pairing

- Set WOOKONG Bio PIN

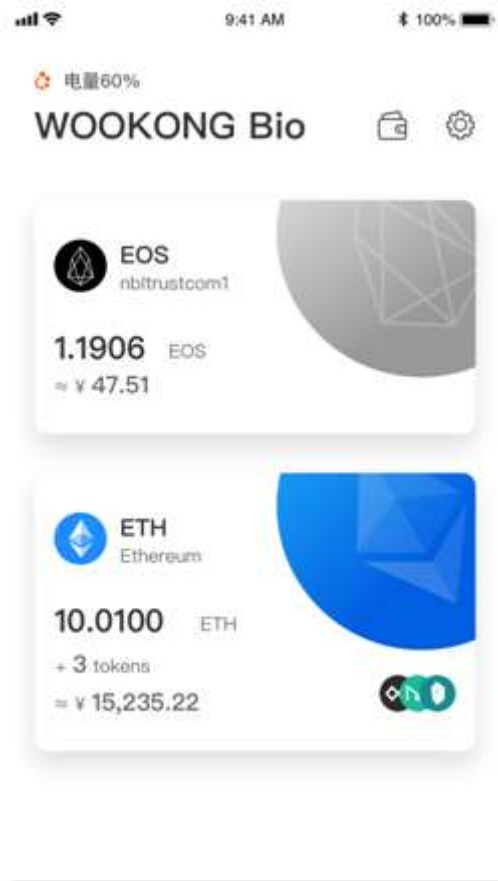- Click "Next" and press the power button of WOOKONG Bio to confirm initialization.

- Choose initialization methods: Create a wallet or import mnemonic phrases.



- Take "Create a wallet" as an example, the next step is the backup of mnemonic phrases.

•         Please backup your mnemonic phrases carefully. This is the paramount certification for retrieving your assets if there is an accident.

•         After mnemonic phrases are backed up, you can set up the fingerprints for WOOKONG Bio.

• When the initialization is completed, you can see the assets on the front page of your application.

# IV. OPERATIONS GUIDE

## 1. Transfer

•       Goes from "Assets details" to "Transfer" page. Enter the recipient, amount, etc. and tap "next".



•              Confirm transfer details.

- If WOOKONG Bio is disconnected, you must connect it through Bluetooth first.
- Follow the hint of the application, and view transfer info. on your WOOKONG Bio. Once confirmed, use the fingerprint or password to authorize the transaction(You need to press the power button).
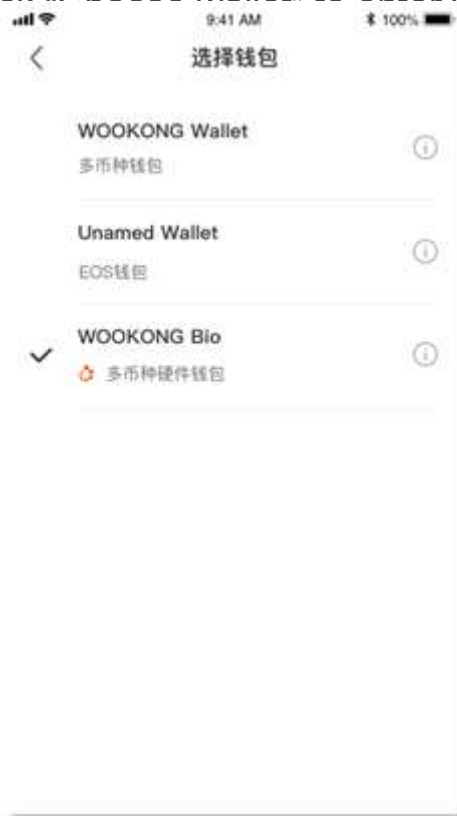
# 2. Fingerprint and Password Management

## 2.1. Add a fingerprint

- Go to the "Wallet" page

- Click "Choose wallet" to enter wallets list



- Click the "info" icon on the right to enter the management page of chosen wallet. If you want to alter fingerprints or the password, make sure your WOOKONG Bio is connected.

• Click "Fingerprint and Password" to enter the management page.

- Click "Add a fingerprint" to record one of your fingerprints following the instructions on the application.



## 2.2. Change Password

- As said in 2.1., choose "Change password" after entering the "Fingerprint and Password" page.



- Enter the original password correctly and your new password, click "Confirm", and confirm it again on your WOOKONG Bio following the

hints.



## 3. Formatting

• Enter the management page of WOOKONG Bio, click the first button (Wallet name and info.)

- Click "Formatting" on the info. page.



- Press the power button of WOOKONG Bio according to the hint.

# Ⅴ. FAQ

## 1. What are the cryptocurrencies that WOOKONG Bio supports now?

ETH, EOS, and other 1000+ ERC20. BTC, USDT, XRP, LTC, CYB, ETC, NEO, BCH, BTS  and so forth will be supported in the future.

## 2. What happens when WOOKONG Bio is lost or damaged?

Please backup the mnemonic before the new WOOKONG Bio import.

### 3. What if I forget my PIN?

Please import the backed-up mnemonic phrases to the new or formatted WOOKONG Bio.

## 4. Can the WOOKONG team control WOOKONGBio?

No.

## 5. Miscellaneous

For more questions, please contact customer service for technical support.

# VI. Appendix

Official Website: https://wooko.ng/
Support Email: support@wooko.ng

Warning:

changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

This device complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions: (1) this device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation. changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

NOTE: This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation.

If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

-- Reorient or relocate the receiving antenna.

-- Increase the separation between the equipment and receiver.

--Connect the equipment into an outlet on a circuit different

from that to which the receiver is connected.

--Consult the dealer or an experienced radio/TV technician for help.

NOTE: This device and its antenna(s) must not be coÿlocated or operation in conjunction with any other antenna or transmitter.