

How to use Ledger Nano S with Yoroi (Cardano)



Yoroi, a Cardano light wallet by EMURGO, now supports the Ledger hardware wallet. Hardware wallets make it possible to sign transactions using a device connected to a computer through a USB cable. Private keys, which are used to generate valid transactions, never leave the device. This provides a step up in security compared to just storing everything in a computer.



The hardware wallet acts as a wall to any software in the computer trying to access the private keys, because it requires user interaction and the input of a secret pin known only by the user.

■ Requirements

- You must have already set up your Ledger Nano S.
- You must have the latest firmware installed.
- You must have already installed Yoroi Chrome Extension.
- (If you already are using Yoroi), you must create a new Chrome Profile and install Yoroi. This will allow you to transfer your crypto assets from your current account over to a new one linked to Ledger.

■ Install Cardano App on Ledger Nano S

1. Open the **Manager** in Ledger Live.
2. Connect and unlock your Ledger Nano S.
3. If prompted, allow the manager on your device by pressing the right button.
4. Find the Cardano App in the App catalog.
5. Click the install button.
6. An installation window will appear and your device will display **Processing...**
7. The installation will finish and the App icon will show as an option in the Ledger device.

■ Use Ledger Device with Yoroi

1. If it's the first time starting Yoroi, you will need to pick a language, and review and accept the Terms of Use.
2. At the "Add Wallet" menu, select "Connect to Ledger Hardware Wallet"



Connect to Ledger Hardware Wallet

Connect to Trezor Hardware Wallet

Create a new wallet

Restore wallet from backup

3. Carefully read the instructions provided by Yoroi and make sure that you are ready. Click Next to continue.


CONNECT TO LEDGER HARDWARE WALLET


X

ABOUTCONNECTSAVE

A hardware wallet is a small USB device that adds an extra level of security to your wallet. It is more secure because your private key never leaves the hardware wallet. This protects your funds even if your computer is compromised due to malware, phishing attempts, etc.

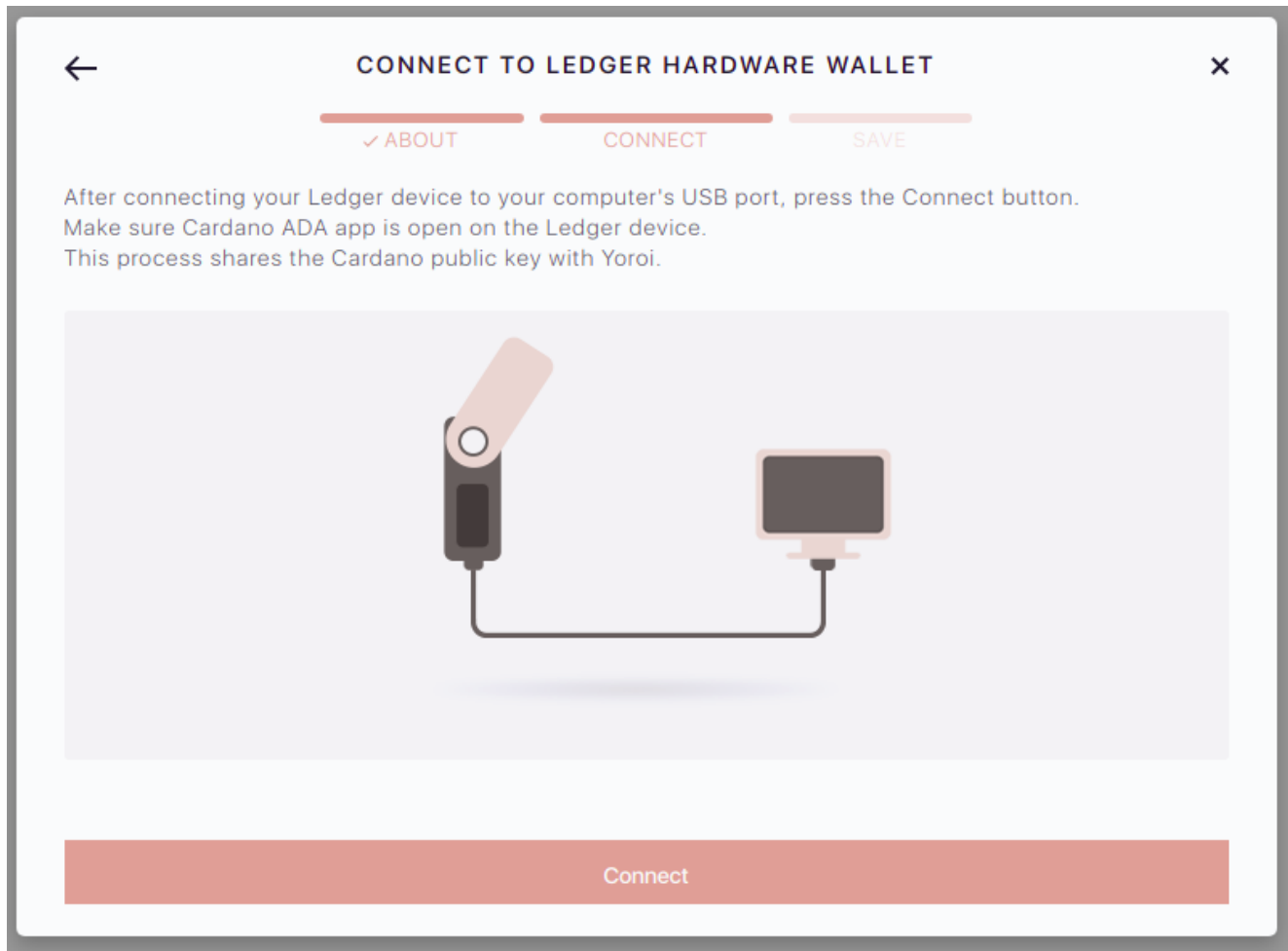
✔ Prerequisites

- Only Supports Ledger Nano S  model.
- Cardano ADA app must be installed on the Ledger device.
- Cardano ADA app must remain open on the Ledger device.
- Your computer must remain connected to the Internet throughout the process.
- The Ledger device must remain connected to your computer throughout the process.



Next

4. At this step, you will connect your Ledger Nano S with Yoroi. When you are ready, click Connect and check your Ledger device. You will be asked to share your public key with Yoroi. Press both buttons on the device when the prompt changes and then right button to confirm.



5. Select a name for your Ledger-based Wallet and click Save.

CONNECT TO LEDGER HARDWARE WALLET

✓ ABOUT

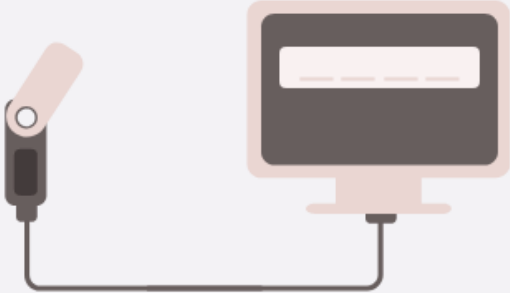
✓ CONNECT

SAVE

WALLET NAME

Yoroi-Ledger

Set a wallet name of your choice.




Save

6 . And you are done! Now you can use Yoroi powered by the Ledger hardware wallet.



■ Sending a transaction using Yoroi

1. Go to the Send tab in Yoroi, then fill the Receiver field with the address of the receiver and add the amount of ADA to send. You will see the total amount on the right of the screen - which includes the transaction fee of the network. Press Next to see the confirmation dialog.



YOROI-LEDGER

0.832181 ADA



TRANSACTIONS

SEND

RECEIVE

RECEIVER

Ae2tdPwUPEZHcmcokmdAmJ2tjZWM8FLY7pfkcqub9CMgjS7ZtwCozsGEcmD

AMOUNT

0.100000

+ 0.167994 of fees

= 0.267994 ADA

Next

2. Confirm the address and the amount to be sent. Also make sure that your Ledger Nano S is connected to your computer and unlocked, and the Cardano App is open. Press “Send using Ledger” when ready and check your Ledger device.

CONFIRM TRANSACTION

- After connecting your Ledger device to your computer's USB port, press the Send using Ledger button.
- Make sure Cardano ADA app must remain open on the Ledger device throughout the process.

TO

Ae2tdPwUPEZHcmcokmdAmJ2tjZWM8FLY7pfkcqub9CMgjS7ZtwCozsGEcmD

AMOUNT

0.100000 ADA

FEES

+0.167994 ADA

TOTAL

0.267994 ADA

Back

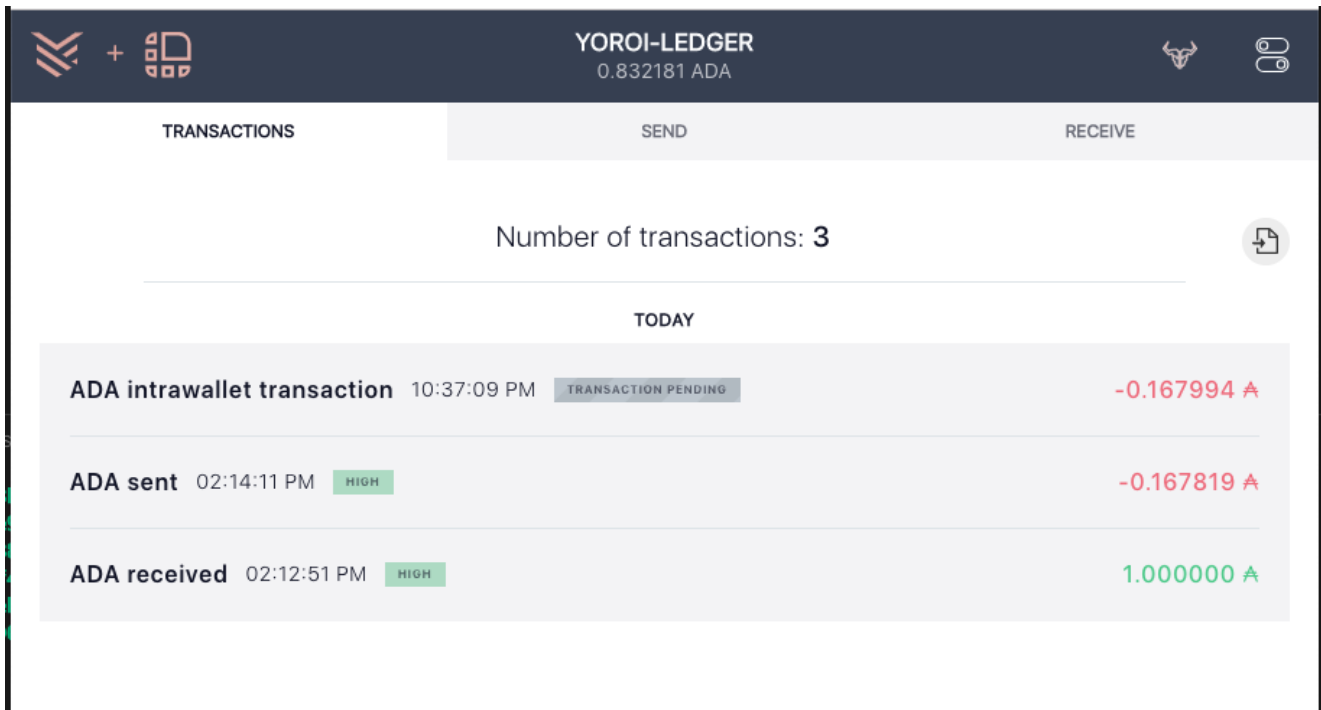
Send using Ledger

3. In the Ledger device you will be asked for confirmation to:

- [a]. Send a new transaction (press right button)
- [b]. Verify and confirm amount (press both buttons)



- [c]. Press the right / left buttons to scroll to the sides and verify that the address is the one that you intend to send funds to. Confirm the address (press both buttons when ready).
- [d]. Verify and confirm transaction fee (two buttons).
- [e]. Confirm transaction (right button).

4. Now the transaction will be broadcasted to the network. If there are no unexpected problems, you will be able to see your transaction in the Transactions tab as Pending (waiting to be added to the block-chain) and it should get confirmed shortly.





■ Receiving ADA using Yoroi and Ledger Nano S


1. Open "Receive" tab in Yoroi. Click "Generate new address" and you are done!


YOROI-LEDGER
0.832181 ADA

TRANSACTIONS
SEND
RECEIVE

YOUR WALLET ADDRESS
Ae2tdPwUPEZ4rS7kb7LBDSHbYKhZMPRDUbVTFLHDmaf72ZRJEQhK8F4p7q

Share this wallet address to receive payments. To protect your privacy, new addresses are generated automatically once you use them.

Generate new address



GENERATED ADDRESSES

hide used

Ae2tdPwUPEZ4rS7kb7LBDSHbYKhZMPRDUbVTFLHDmaf72ZRJEQhK8F4p7q













Copy address

Ae2tdPwUPEZHcmckmdAmJ2tjZWM8FLY7pfkcqub9CMgjS7ZtwCozsGEcmD

Copy address

Verifying ADA address through your Ledger

1. Open "Receive" tab in Yoroi.
2. Click the magnifying glass icon next to the address you want to verify.
3. It will open a dialog window with address details.
4. Click "Verify on hardware wallet" and see your Ledger device.
5. Click both buttons to verify derivation path and address.

Ae2tdPwUPEZEBwpUeiiB2wcNUPKDjq3284pjnp5ctfyXTKyHZDiKipCiYXh	  Copy address
Ae2tdPwUPEZ1Dm26pWVuRdjh3EixJmALo31ygwEa5uDf3VnZakYWhL6vUEh	  Copy address
Ae2tdPwUPEYyeESbwrn4b86894kZLasWSmgz3fgVZf19wTwPP5qVtsZdQYF	  Copy address
Ae2tdPwUPEZ1pn3ze19g8uA56nMDamgig4w2mZP831aRMU8S6NVY2mBoVKc	  Copy address
Ae2tdPwUPEZ48KANXbTJcZi8b7q57A4B7j8cs9DQ2hRMVZ9LjGPLtsAFiF9	  Copy address
Ae2tdPwUPEYyKBcZvKcjFRDMeYFvagt7H2c77GWkS7hDUCLZWwB3Zb7JeN	  Copy address

Share this wallet address to receive payments. To protect your privacy,

ew

EN

e2

Pi

sed

ss

ADDRESS DETAILS



ADDRESS

Ae2tdPwUPEYvsx6EkJhuLrahwG3bHDpchE9Rk1BeVJEConNFJMemCnwPi1R

DERIVATION PATH

m/44'/1815'/0'/0/0

Verify on hardware wallet

■ Support

In case you face any issues or require some additional assistance on how to use your Ledger device with Yoroi wallet - please visit <https://yoroi-wallet.com/support>