# Nitrokey Passkey

**Passwordless login and two-factor authentication protect your online accounts private and professional**

High acceptance and compatibility due to easy use and popular passkeys. Trustworthy thanks to open source hardware made in Germany.

**Nitrokey**
secure your digital life

# 13 billion
## stolen online accounts

### Passwords and phishing are the most common attack vectors

Stolen online accounts can have desastrous consequences for the affected people and companies. Weak or stolen passwords and phishing are the most common attack vectors for successful hacker attacks. Currently, there are approximately 13 billion stolen online accounts known. You can check if you are affected too:
https://haveibeenpwned.com
https://sec.hpi.uni-potsdam.de/ilc/search

# SECURITY FEATURES

### Two-factor authentication (2FA) *becomes normal*

Most of the big websites and about half of all companies make use of two-factor authentication. But beware: Numerous publicly known cases show that even SMS as two-factor authentication method is easy to hack.

Thanks to strong cryptography, Nitrokey Passkey supports secure two-factor authentication. Your online accounts remain protected even if your password gets stolen.

### Passwordless login *convinces*

With Nitrokey Passkey, you can stop using tedious and insecure passwords. No password policies, no sticky notes with passwords and no forgotten passwords anymore. From now on, you log in to supported websites easily and securely using your Nitrokey Passkey.

Passwordless Login is two-factor authentication with device PIN. Optionally, if it is supported by the website, entering a username can be omitted. In this case the user identifies himself with a key on the Nitrokey Passkey.

### Phishing protection *included*

During login, Nitrokey Passkey validates the domain and therefore protects you reliably against phishing attacks.

# ADVANTAGES

⊕ **High acceptance through easy usage**

Using Nitrokey Passkey is very easy. You configure your Nitrokey Passkey once to pair it with your online accounts. From now on, you confirm your login by a simple tap on the touch button (optional: by a PIN). In addition to a common web browser, you don't need any additional client software or driver installation.

⊕ **Good compatibility through future-proof standard**

All common web browsers support the standard Passkey resp. WebAuthentication (WebAuthn). More and more websites (e.g. Google, Facebook), on-premise online services (e.g. Nextcloud) and Windows (with Microsoft Entra ID) support WebAuthn for authentication.

⊕ **Trust through open source hardware made in Germany**

Nitrokey Passkey is published as open source hardware for transparency reasons and is entirely manufactured in Germany.

# USE CASES

## FOR PRIVATE INDIVIDUALS – *Protection against hackers*

- **Protect online accounts through two-factor authentication**

  Nitrokey is your key to a secure login to websites (e.g. Google, Facebook, overview available on https://pass-keys.directory). You can use a single Nitrokey Passkey to protect an unlimited amount of online accounts.

- **Passwordless login in the Web**

  Forget your password to log in to websites and use a Nitrokey Passkey for passwordless login instead.

## FOR ENTERPRISES – *Protection against hackers and economic espionage*

- **Protect online accounts through two-factor authentication**

  Nitrokey is your key to a secure login to websites (e.g. Google, Facebook, overview available on https://pass-keys.directory). You can use a single Nitrokey Passkey to protect an unlimited amount of online accounts.

- **Passwordless login to local Windows PC**

  Your employees can login to their Microsoft Entra ID (formerly Azure Active Directory) administrated Windows computers without a password. They only need a Nitrokey Passkey.

- **Passwordless login in the Web**

  Forget your password to log in to websites and use a Nitrokey Passkey for passwordless login instead.

- **Passwordless login to your own enterprise systems**

  Replace your password policy, forbidden sticky notes with passwords and cumbersome password resets by passwordless login with Nitrokey Passkey. Security and acceptance through simplicity. We can help you with integrating passwordless login in your enterprise environment.

## Supported Systems

- Web browsers: Mozilla Firefox, Google Chrome, Safari, Microsoft Edge, Chromium, Opera

- Websites: Overview at https://passkeys.directory

- Windows, macOS, Linux, BSD

## Technical Details

- Authentication standards: WebAuthentication (WebAuthn), CTAP2.1/FIDO2, CTAP1/FIDO U2F 1.2

- Unlimited amount of accounts for two-factor authentication

- 50 passkeys or accounts for passwordless logins

- Signed firmware updates

- With touch button

- Activity indicator: four-colored LED

- HHardware interface: USB 2.1, type A

- Maximum supply current: 10 mA

- Maximum power consumption: 500 mW

- Size: 17 x 14 x 6 mm

- Weight: 1,5 g

- Compliance: FCC, CE, RoHS, WEEE, OSHwA

*Version: 09/2024*

# NITROKEY IS BETTER

## Security Requires Open Source

Both hardware and firmware, tools and libraries are open source, enabling independent security audits. Flexibly adaptable, no vendor lock-in, no security through obscurity, no hidden security flaws and backdoors.

## Complete USB Connector

Unlike some of its competitors, Nitrokey has a complete and standard-compliant USB connector. This ensures plugging the device in and out several thousand times without connection issues. Anti-twist protection reduces support costs.
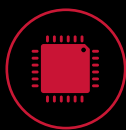
## Hardware Security

Nitrokey Passkey stores your cryptographic key in a processor so that it remains secure even if the device is stolen. Nitrokey Passkey is therefore more secure than SMS- and app-based authentication methods.

## Made in Berlin

Nitrokey is developed and produced in Berlin resp. Germany. For the sake of higher quality and security, we do not use cheap overseas manufacturing.

## Easy Integration

Nitrokey uses open interfaces and open source tools to enable easy integration into your systems. We can develop a customized solution for you on request.

## Sustainability

Regional production in Berlin, casings made from recycled plastic granulate, plastic-free shipping bags, green electricity, and refurbished laptops are examples we take for granted.

**www.nitrokey.com**

## Our Customers