Nitrokey FIDO2

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

High acceptance and wide dissemination due to easy use and popular standard (WebAuthentication).

Trustworthy thanks to open source hardware made in Germany.

Nitrokey
secure your digital life

10 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 10 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 FIDO2 supports secure two-factor authentication. Your online accounts remain protected even if your password gets stolen.

✓ Passwordless login *convinces*

With Nitrokey FIDO2, 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 easily and securely to your Windows 10 Pro, Microsoft Office 365 or your own enterprise systems with the help of Nitrokey FIDO2.

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 FIDO2.

✓ Phishing protection *included*

During login, Nitrokey FIDO2 validates the domain and therefore protects you reliably against phishing attacks.

ADVANTAGES

⊕ **High acceptance through easy usage**

Using Nitrokey FIDO2 is very easy. You configure your Nitrokey FIDO2 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 already support the standard FIDO2 resp. WebAuthentication (WebAuthn). More and more websites (e.g. Google, Facebook), on-premise online services (e.g. Nextcloud) and Windows 10 Pro (with Azure Active Directory) support WebAuthn for authentication.

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

Nitrokey FIDO2 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 www.dongleauth.com). You can use a single Nitrokey FIDO2 to protect an unlimited amount of online accounts.

- **Passwordless login**

  Forget your password to log in to Microsoft services (e.g. Office 365) and use a Nitrokey FIDO2 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 www.dongleauth.com). You can use a single Nitrokey FIDO2 to protect an unlimited amount of online accounts.

- **Passwordless login**

  Forget your password to log in to Microsoft services (e.g. Office 365) and use a Nitrokey FIDO2 for passwordless login instead.

- **Passwordless login to local Windows 10 computers**

  Your employees can login to their Azure Active Directory administrated Windows 10 Pro computers without a password. They only need a Nitrokey FIDO2.

- **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 FIDO2. 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: e.g. Google, Facebook, Dropbox, GitHub. Overview at www.dongleauth.com

- Windows, macOS, Linux, BSD

Technical Details

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

- Two-factor authentication and passwordless login for an unlimited amount of accounts (FIDO U2F, FIDO2)

- Login without username for up to 50 accounts (FIDO2)

- Signed firmware updates

- With touchbutton

- Activity indicator: tri-colored LED

- Life expectancy (MTBF, MTTF): > 20 years

- Durability USB connector (EIA-364-09): > 1,500 mate and unmate cycles

- Hardware interface: USB 1.1, Typ A

- Maximum supply current: 10 mA

- Maximum power consumption: 500 mW

- Size: 48 x 19 x 7 mm

- Weight: 5 g

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

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.
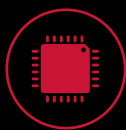
Hardware Security

Nitrokey FIDO2 stores your cryptographic key in a processor so that it remains secure even if the device is stolen. Nitrokey FIDO2 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