yubico

YubiKey 5 FIPS Series

FIPS 140-2 validation ensures strong security and compliance

Relying solely on username and password security puts enterprise data at risk

Catastrophic security breaches top world headlines every day, and for good reason. Global cybercrime costs are expected to cost the world $12.2 trillion USD annually by 2031[1] and 60% of breaches are caused by stolen or weak passwords.[2] As a result, IT organizations can't rely exclusively on passwords to protect access to corporate data. They have to adopt stronger employee and vendor authentication—or risk becoming the next target.

The YubiKey 5 FIPS Series offers strong phishing-resistant MFA

The YubiKey 5 FIPS Series lineup makes it easy to deploy strong, scalable authentication that eliminates account takeovers from phishing attacks. The YubiKey is a hardware-based solution that:

- Offers multiple authentication and cryptographic protocols including FIDO2/WebAuthn, FIDO U2F, Personal Identity Verification-compatible (PIV) Smart Card, OpenPGP, and Yubico One-Time Password (OTP) to protect employee access to computers, networks, and online services with just one touch
- Support passwordless secure login with smart card and FIDO2/WebAuthn authentication
- Works across major operating systems including Microsoft Windows, macOS, Android, and Linux, as well as leading browsers
- Available in a choice of six form factors that enable users to connect via USB-A, USB-C, NFC and Lightning

[1] Cybersecurity Ventures, Cybercrime To Cost The World $12.2 Trillion Annually By 2031
[2] Verizon, 2025 Data Breach Investigations Report
[3] Google Research, Security Keys: Practical Cryptographic Second Factors for the Modern Web

The YubiKey 5 FIPS Series is the first FIPS validated FIDO2/WebAuthn, multi-protocol authenticator lineup. From left to right: YubiKey 5 NFC FIPS, YubiKey 5C NFC FIPS, YubiKey 5Ci FIPS, YubiKey 5C FIPS, YubiKey 5 Nano FIPS and YubiKey 5C Nano FIPS.

YubiKeys have protected Google employees since 2010

0	92%	4x	0
account takeovers	fewer support incidences	faster to login	account lockouts

YubiKey has been the trusted choice of Google, Meta, and Salesforce since 2012

Delivers strong multi-factor authentication

The YubiKey combines hardware-based authentication and public key cryptography to ensure strong authentication and eliminate account takeovers. Capabilities include FIDO2/WebAuthn and FIDO U2F, open authentication standards supported by the FIDO Alliance, as well as Smart Card functionality based on the PIV interface specified in NIST SP 800-73.

Reduces IT costs

After evaluating data gathered from their YubiKey deployment, Google found that the device's ease of use and reliability reduced password support incidents by 92%. This saves the company thousands of hours per year in support costs.[3]

Provides easy, fast, and reliable security for employees

YubiKey hardware is reliable because it does not require a battery or network connectivity, so it's always on and accessible. Authentication is fast with a simple touch that is four times faster than SMS and mobile two-factor authentication.

YubiKeys deployed in:

19 of top 20 technology companies*

9 of top 10 financial services companies*

8 of top 10 retail companies*

*As defined by Forbes Global 2000, excluding China-owned companies.

YubiKey: Proven, easy-to-use security that's trusted by the world's leading companies

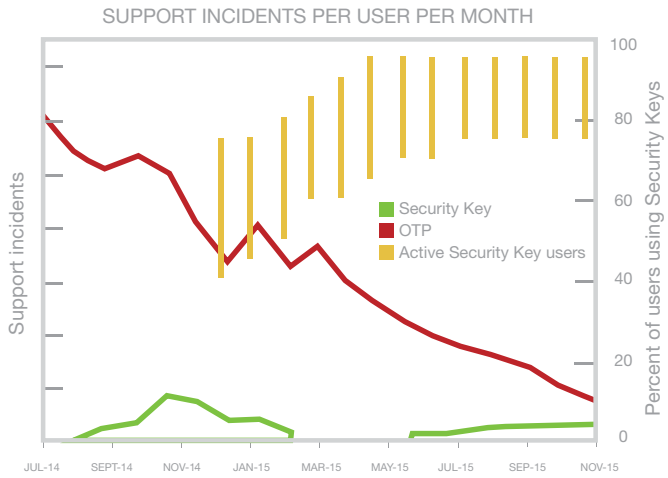
Phishing defense for secure enterprise authentication

The YubiKey stores the authentication secret on a secure element hardware chip. This secret is never transmitted and therefore cannot be copied or stolen.

Reduces IT costs

The YubiKey dramatically reduces the number one IT support cost—password resets—which cost Microsoft over $12M per month.[4]

By switching from mobile OTPs to YubiKeys, Google reduced password support incidents by 92% because YubiKeys are more reliable, faster, and easier to use.



This graph illustrates how quickly Google reduced password support incidents after switching from OTP to YubiKey.[5]

Easy to use, fast, and reliable

Users don't need to install anything—customers or employees simply register their own YubiKey, enter their username and password as usual, and plug in and tap the YubiKey when prompted.

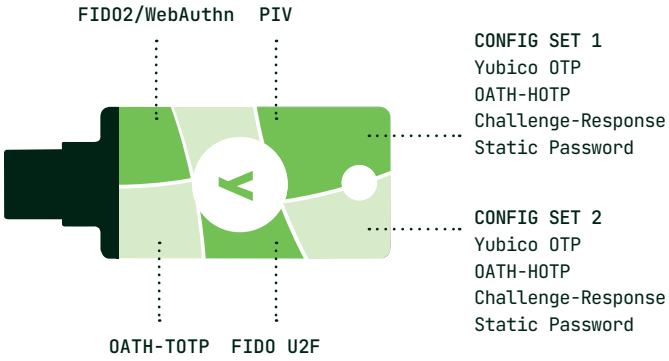
The YubiKey 5 NFC FIPS, YubiKey 5C NFC FIPS, YubiKey 5Ci FIPS and YubiKey 5C FIPS conveniently fit on a keyring, while the YubiKey 5 Nano FIPS and YubiKey 5C Nano FIPS are designed to remain in the USB port. This ensures every YubiKey is easy to access and provides the same level of digital security. The YubiKey 5 NFC FIPS / 5 Nano FIPS are crush-resistant and water-resistant.

[4] "Saying Goodbye to Passwords," Alex Simons, Manini Roy, Microsoft Ignite 2017

[5] Google Research, Security Keys: Practical Cryptographic Second Factors for the Modern Web

Easy to deploy

IT can deploy YubiKeys in days, not months. A single key can access several modern and legacy systems, which eliminates the need for separate keys or extra integration work.



YubiKey capabilities: These functions are included in the YubiKey 5 NFC FIPS, YubiKey 5C NFC FIPS, YubiKey 5Ci FIPS, YubiKey 5C FIPS, YubiKey 5 Nano FIPS and YubiKey 5C Nano FIPS security keys. Technical specifications are available at yubico.com.

Trusted authentication leader

Yubico is the the principal inventor of the U2F authentication standard adopted by the FIDO Alliance and was the first company to produce the U2F security key.

YubiKeys are produced in our offices in the USA and Sweden, maintaining security and quality control over the entire manufacturing process.

FIPS 140-2 Validated

Protect your organization with the FIPS 140-2 Overall Levels 1 and 2, Physical Security Level 3 validated version of the industry leading YubiKey multi-factor authentication solution. The YubiKey 5 FIPS Series enables government agencies and regulated industries to meet the highest authenticator assurance level 3 (AAL3) requirements from the new NIST SP800-63B guidance.

Contact us
yubi.co/contact

Learn more
yubi.co/fips

Yubico (Nasdaq Stockholm: YUBICO) is a modern cybersecurity company on a mission to make the internet safer for everyone. As the inventor of the YubiKey, we set the gold standard for secure, simple login, stopping account takeovers with phishing-resistant, hardware-backed authentication.

Our technology secures people in over 160 countries, delivering fast, passwordless access. Dual-headquartered in Stockholm and Santa Clara, we believe strong security should be within everyone's reach. Learn more at www.yubico.com.