yubico

YubiKey 5 Series

The multi-protocol key for the AI era delivering authentication and authorization

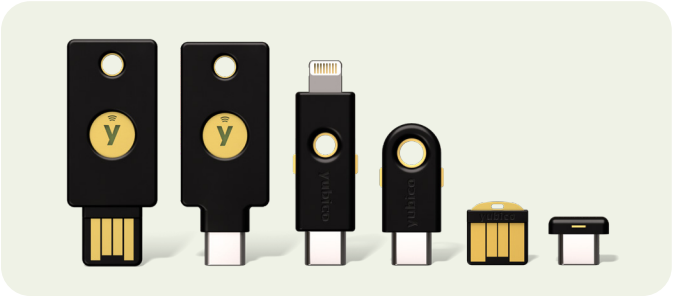
Relying solely on username and password security puts enterprise data at risk

As generative and agentic AI mature, identity has become the primary control point in security—and the human element is increasingly under attack. A single breach costs an average of $4.44M[1] and one in six breaches involve AI-driven attacks. Phishing, credential theft, and sophisticated social engineering have exposed the limits of traditional MFA, making the shift to passkeys an operational necessity. Adopting stronger employee and customer authentication is essential to mitigating risk and ensuring you don't become the next target.

Phishing-resistant authentication with Smart Card/PIV and FIDO2/WebAuthn

The YubiKey 5 Series is a hardware-based authentication solution that provides superior defense against account takeovers and enables compliance. The YubiKey offers strong authentication with support for multiple protocols, including existing Smart Card/PIV, and FIDO2/WebAuthn, the new standard enabling the replacement of weak password-based authentication. With the YubiKey, security is heightened with strong hardware-based authentication using public key cryptography. And the YubiKey is easy to use, fast and reliable, and is proven at scale to significantly reduce IT costs and eliminate account takeovers.





The YubiKey 5 Series–from left to right: YubiKey 5 NFC, YubiKey 5C NFC, YubiKey 5Ci, YubiKey 5C, YubiKey 5 Nano and YubiKey 5C Nano.

The YubiKey 5 Series security keys deliver expanded authentication options

- **Strong Single Factor—Passwordless:** Replaces weak passwords with passwordless tap-n-go secure login.
- **Strong Two Factor—Password + Authenticator:** Adds a tap-n-go second factor for secure two factor authentication.
- **Strong Multi-Factor—Passwordless + PIN:** Combines tap-n-go authentication with a PIN, to solve high assurance requirements such as financial transactions, or submitting a prescription.

The YubiKey delivers enhanced protection at scale

The YubiKey multi-protocol support streamlines authentication for existing systems while paving the way forward to a passwordless future.

- Authentication and cryptographic protocols supported include FIDO Universal 2nd Factor (U2F), FIDO2/WebAuthn, Personal Identity Verification-compatible (PIV) Smart Card, and OpenPGP.
- Works across major operating systems including Microsoft Windows, macOS, iOS, Android, and Linux, as well as leading browsers.
- Available in a choice of form factors that enables users to connect via the USB, NFC or Lightning connector.
- The YubiKey 5C NFC offers multi-protocol capabilities with both USB-C and NFC capabilities for secure tap-n-go authentication on all the modern devices users love.
- Streamlines asset tracking and account recovery processes with enterprise attestation for custom programmed keys.
- Enforces compliance requirements and elevates security for PIN usage with the latest FIDO2 features such as Force PIN Change and Minimum PIN Length.
- Supports up to 100 passkeys and 64 OATH slots per application.
- Extends passkeys beyond authentication to secure authorization—enabling preview support for hardware-backed signatures, and security for digital identity wallets, payments, and AI-driven workflows.

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

Eliminate account takeovers

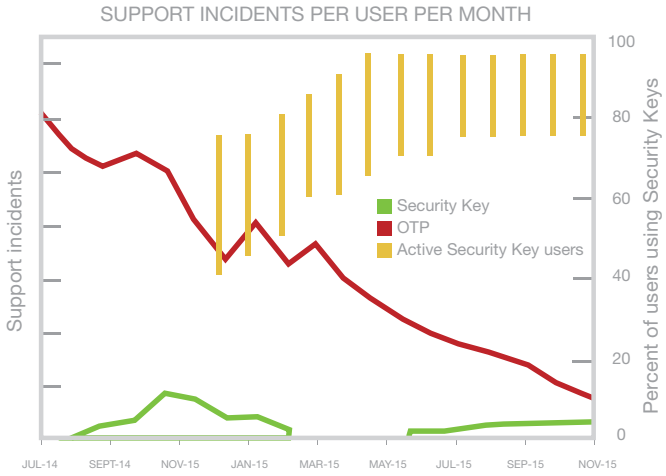
Any software downloaded on a computer or phone is vulnerable for malware and hackers. The YubiKey is based on hardware with the authentication secret stored on a separate secure chip built into the YubiKey, with no connection to the internet so it cannot be copied or stolen.

Reduce IT costs

The YubiKey dramatically reduces the number one IT support cost—password resets—which cost Microsoft over $12M per month.[2]

By switching from mobile one time passwords (OTPs) to YubiKeys, Google saw the following results.[3]

- Zero account takeovers
- 4x faster logins
- 92% fewer IT support calls



This graph illustrates how quickly Google reduced password support incidents after switching from OTP to YubiKey.[4]

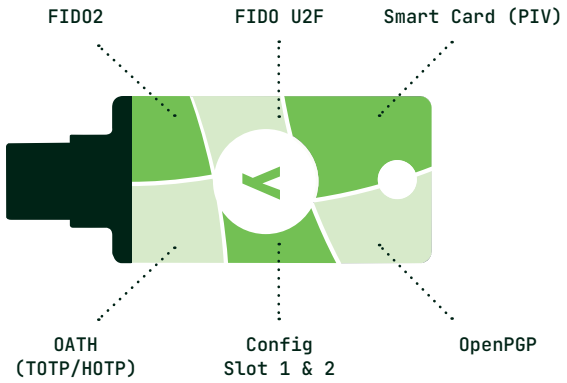
Fast and easy user experience

Users don't need to install anything and can use the YubiKey in minutes. And the YubiKey is reliable because it does not require a battery or cellular connectivity, so it's always on and accessible.

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

Cost-effective global rollouts

IT can deploy YubiKeys in days, not months. A single key, through its flexible multi-protocol capabilities, can work out-of-the-box with hundreds of systems, both cloud and on-premises. This eliminates the need for costly integrations or separate devices for each system.



YubiKey capabilities: These functions are included in the YubiKey 5 NFC, YubiKey 5C NFC, YubiKey 5C, YubiKey 5 Nano, the YubiKey 5C Nano, and the YubiKey 5Ci.

Trusted authentication leader

Yubico is the principal inventor of the FIDO2/WebAuthn and U2F authentication standards adopted by the FIDO Alliance and is the first company to produce the U2F security key and a multiprotocol FIDO2/WebAuthn authenticator.

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



[1] IBM, 2025 Cost of a Data Breach Report

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

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

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

Yubico (Nasdaq Stockholm: YUBICO) is a global cybersecurity pioneer and creator of the YubiKey, the gold standard for phishing-resistant, hardware-backed authentication. Since co-creating global passkey standards in 2007, Yubico has eliminated account takeovers for enterprises, governments, and individuals across 160+ countries. Our global footprint includes headquarters in Stockholm, Sweden, Silicon Valley, California, and Singapore.

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