

What is a YubiKey?

Product specifications

The YubiKey is a highly durable, multi-protocol hardware security key that delivers both phishing-resistant multi-factor authentication (MFA) and passwordless authentication at scale. Each device offers an exceptional user experience with simple touch to sign functionality. YubiKeys support legacy and modern applications with a range of protocols, including FIDO2/WebAuthn, FIDO U2F, smart card (PIV), OpenPGP and one-time password (OTP), but also offer other useful features such as challenge-response and even the ability to store static passwords. All YubiKeys are specifically designed to work in various climates, are crush-resistant, waterproof, do not use a battery, arrive in a variety of form factors suitable for desktop, laptop or mobile, and finally, come with physical and wireless connectivity options.

Basic facts

All Yubico devices are only manufactured in the USA or Sweden

- The empirical failure rate of all units sold is under 0.01%
- YubiKeys come with an extended warranty to terms length if buying via Subscription, or a 1-year warranty if buying via the Perpetual model
- Each YubiKey is estimated to function for at least 100,000 USB or Lightning port insertions and withstand at least 500,000 write/erase cycles
- The solid construction of each YubiKey means it can sustain physical stress up to a bending force of 25 N·m, with the Lightning connector on the YubiKey 5Ci even up to 100 N·m according to lab tests

Thermal Rating

All YubiKeys have an operational temperature range between 0°C to 40°C (32°F to 104°F)

- All YubiKeys have a storage temperature range between -20°C to 85°C (-4°F to 185°F)

Certifications

The YubiKey FIPS Series is FIPS 140-2 validated (Overall [Level 1](#) and [Level 2](#), Physical Security Level 3), and meets the highest authenticator assurance level (AAL3) of [NIST SP800-63B guidance](#)

- The YubiKey 5 CSPN Series is available to meet the security and [authentication standards based on the latest guidelines issued by ANSSI](#). The CSPN certificate is also recognized by the Federal Office for Information Security (BSI) as comparable to a certificate according to the Beschleunigte Sicherheitszertifizierung (BSZ) Rated for Electromagnetic Compatibility (EMC) under EN55032/EN55035
- IP68 rated under IEC standard 60529 by an ISO 17025 certified lab
- Successfully tested successfully for electrostatic discharge under EN/IEC 61000-4-2

Mean Time Between Failure (MTBF)

- YubiKey 5 Series MTBF is, on average, greater than 100 years in most commonly used environments, but may vary in harsher environments. YubiKey Bio MTBF is greater than 17 years under the same conditions

Form factors



YubiKey 5 NFC

- Dimensions: 18mm x 45mm x 3.3mm
- Weight: 3g
- Interfaces: USB 2.0 A
- NFC ISO 14443-3 Type A
Power consumption: < 150 mW
- Data Transfer rate: 12 Mbps



YubiKey 5C NFC

- Dimensions: 18mm x 45mm x 3.7mm
- Weight: 4.1g
- Interfaces: USB 2.0 C
- NFC ISO 14443-3 Type A
Power consumption: < 150 mW
- Data Transfer rate: 12 Mbps



YubiKey 5C

- Dimensions: 12.5mm x 29.5mm x 5mm
- Weight: 2g
- Interfaces: USB 2.0 C
- Power consumption: < 150 mW
- Data Transfer rate: 12 Mbps



YubiKey 5Ci

- Dimensions: 12mm x 40.3mm x 5mm
- Weight: 2.9g
- Interfaces: USB 2.0 C, Lightning
Power consumption: < 150 mW
- Data Transfer rate: 12 Mbps



YubiKey 5 Nano

- Dimensions: 12mm x 40.3mm x 5mm
- Weight: 2.9g
- Interfaces: USB 2.0 C, Lightning
Power consumption: < 150 mW
- Data Transfer rate: 12 Mbps



YubiKey 5C Nano

- Dimensions: 12mm x 10.1mm x 7mm
- Weight: 1g
- Interfaces: USB 2.0 C
- Power consumption: < 150 mW
- Data Transfer rate: 12 Mbps



YubiKey Bio A

- Dimensions: 18mm x 45mm x 3.5mm
- Weight: 4.5g
- Interfaces: USB 2.0 A
- Power consumption: < 300 mW
- Data Transfer rate: 12 Mbps



YubiKey Bio C

- Dimensions: 18mm x 45mm x 3.5mm
- Weight: 4.5g
- Interfaces: USB 2.0 A
- Power consumption: < 300 mW
- Data Transfer rate: 12 Mbps

Find the right Yubikey

Take the quick Product Finder Quiz to find the right key for you or your business.

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