

TRUSTKEY G310H



Why should you use G310H?

2.3 billion

Credentials stolen in 2017 alone

36%

Rise in phishing attacks in 2018

51%

Of passwords are reused across services

62%

Of people have felt stressed or annoyed as a result of forgetting their password

1,300 years

Collectively spent by humans each day entering passwords

Source : FIDO Alliance

Description

TrustKey Solutions¹ G310H security key is a USB hardware token made for FIDO™ authentication using eWBM MS500², a powerful microprocessor with the extensive security features, and a fingerprint sensor with a world-leading fingerprint recognition algorithm.

Certified with the new FIDO2 standard, G310H provides the benefit of fast login and a strong protection against phishing, account takeover as well as many other online attacks. Simply plug G310H into a USB port according to the login procedure then touch the fingerprint sensor on the key to complete the login and access the account.

Moreover, G310H is compatible with all the major web browsers where WebAuthn is implemented, and works seamlessly on many online services like Google, Dropbox, Facebook, Twitter, GitHub and many more.

It is the world's first and only FIDO2 Level 2 security key.

¹eWBM²MS500 : Security system-on-chip (SoC) developed and manufactured by the parent company, eWBM. For more information, please visit www.trustkeysolutions.com.

Platform - Environment

Supported OS	Windows, macOS, iPadOS, Linux, Android, Chrome OS, etc.
Supported Web Browser	Chrome, Edge, Firefox, Safari, whale, Brave
Supported OS for BioManager™	Windows 10, macOS 10.10.x or higher

Features

- **Windows Hello Sign-in**
G310H has Windows Hello authentication feature added to G310/G320 Security Keys to offer complete passwordless login system from Windows PC login to online web application.
- **Fast login without password**
G310H allows users to login easily and securely without a password.
- **Easy fingerprint enrollment**
G310H comes with the BioManager™, an intuitive fingerprint enrollment application.
- **No more fingerprint data breach**
G310H stores the scanned fingerprint data encrypted in the secure storage area. The stored data can never leave the key, even during registration or authentication.
- **FIDO2 Security Level 2 certified**
G310H is the world's first authentication device to achieve FIDO2 L2 security certification by satisfying secure operating environment requirement by the FIDO Alliance.
- **Multiple client devices supported**
G310H is a roaming authenticator. It can be used in conjunction with more than one user device.
- **Microsoft Azure AD support**
G310H fully supports Microsoft Azure AD. G310H can be used to sign into Azure joined Windows PC whether you are online or offline/airplane mode.



TRUSTKEY G310H

With G310H,
Get Secure, Easy Login Experience without a Password

Strong Security



Public and private key encryption based on FIDO2 provides stronger protection with fast and easy login experience

No Battery



No battery is required since it is powered by USB port

Easy to Use



Simply insert G310H into a USB port then plug and play on your PC or Mac

Portable



Ultralight and easy to carry around with you

One Security Key



With G310H, you can register and login to many different online sites

Product Specifications

FIDO Standard	FIDO2 , U2F
FIDO Certified Authenticator Level	Level 2
USB Type	Type A
Fingerprint Resolution	160 x 160 pixel
Status Indicator	3 Color LED (Red, Green, Blue)
Device Type	FIDO2 HID device
FP Algorithm	Precise™ Biometrics
Size	41.6 x 17.8 x 4.7 mm
Weight	3.1 g

Designed and manufactured in Korea

Cryptography Algorithm List

Confidentiality	AES-256
Hashing	SHA-256
Data Authentication	HMAC
Key Protection	GCM Mode, with fixed length 96 bit IVs
Signature	ECDSA, ECDH

FIDO2 Level 2 Security Features

Secure Boot
Secure Storage
High-Speed TRNG(25Mbps): FIPS140-2 Compliant

G310H is available now on a variety of operating systems and platforms that offer FIDO2 certification services.

