T110/T20 User Manual

V1.2

Please read the manual carefully before use. The graphics here can be different from the user's computer and can also be changed without notice. The content can be modified later.

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0. Before Using the TrustKey Security Keys

1. Precautions before using a security key

- You need to register security key's PIN before use.
 The detailed steps to writing PIN will be in Section 1.4 or 1.5
- Please choose the correct USB port for your security key (USB-A or USB-C)
- Check the version of your device including Windows PC, Macs, Android and Apple products.

Device Platform	Version	Description
Windows 10	v.1809 or later	Cannot be used with Windows 7, 8
MacOS	Mojave or later	
Linux	Latest version	64-bit Ubuntu 14.04 or later, Debian 8 or later, ope nSUSE 13.3 or later, Fedora Linux 24 or later
Android OS	v.7 or later	
iPadOS	v.13 or later	
Chrome	Latest version	Recommend to use the latest version
Edge	Latest version	Recommend to use the latest version
Firefox	Latest version	Recommend to use the latest version
Safari	Latest version	Recommend to use the latest version
Other Web Browsers		Support all chromium-based web browsers (Recommend to use the latest version)

1. How to Use TrustKey Security Keys

1. What is the USB Security Key?

A security key is a peripheral device used to gain access to an electronically restricted resource. The hardware key is used in addition to or in place of a password. It acts like an electronic key to access something. A Security key is also called a security token.

A USB Security Key is a security key with a USB interface to connect to a PC.

TrustKey's T110/T120 is an affordable security key with a USB interface from TrustKey Solutions.

There are three factors that a user can present for authentications. The three factors are:

- 1) What you know something that the user knows, including password, passphrase, PIN, etc
- 2) What you have physical device including Phone, OTP token, and USB security key
- Who you are biometric factors including face, fingerprint, IRIS, etc

The modern authentication method requires more than one factor. Note that the traditional system with account ID and password represents only one factor: what you know.

Our G310H/G320H/B210H can provide two factors using what you have (the key itself) and who you are (fingerprint).

Our T110/T120 is using what you have (the key) and what you know (PIN to the security key) for multi-factor authentication.

2. What is the Security Key's PIN?

The PIN is similar to the password but used differently. The password is a shared secret between the user and the server. The client system asks the user to type in the password and sends the password information to the server for verification. Unlike the password, the PIN is not sent to the server; a PIN is a shared secret between the user and the security key. Therefore, the verification happens at the device, not the server.

The PIN is needed for fingerprint enrolment and modification. It is also used for backup authentication when fingerprint authentication failed.

We recommend that the user use a complex combination of digits and letters to protect the user from being leaked.

3. Introduction to Security Key1) Product Specification





Product Name	T110	T120
Model Name	eTA310	eTA320
USB Type	Type A	Туре С
Color	Black	Black
Authentication Action	PIN+Touch	PIN+Touch
Operation Temp	−20°C ~ +60°C	−20°C ~ +60°C
Storage Temp	-40℃ ~ +85℃	-40℃ ~ +85℃
HOTP, TOTP	0	0
Device Type	HID Device	HID Device
Status Indicator	White Color LED	White Color LED
Material	Polycarbonate (Touch area: Gold plate)	Polycarbonate (Touch area: Gold plate)
FIDO Protocol	FIDO2, U2F	FIDO2, U2F
FIDO Security Level	Level 1	Level 1
Certification	KC, CE, FCC	KC, CE, FCC
Size	17.8x41.89x3.8 (mm)	17.8x41.6x4.6 (mm)
Weight	2.9g	2.9g

3. Introduction to Security Key

2) Basic Features of Your TrustKey



• LED Status Indicator

Color	Status	Description	Action
White	ON	 Key Connection Success Authentication Success 	
	Blinking	Waiting for touch recognition	
	OFF	Key Connection Fail	Reinsert the key or change the USB port

1) Windows Version Check

1. Please check your Windows version before enrollment by typing "winver" at the Windows search bar.

🛒 🔎 winver		
2. Please check the Wi version(②). ✓ Available ① Product Name S	ndows Product Name(①) and : Windows 10 Home, Professional, Enterprise	d
②Version:	Windows 11 Home, Pro, Pro for Workstation, E [19H1] OS build 18298 or later	nterprise
About Windows		×
Microsoft Windows Version 22H2 (OS Build 226 © Microsoft Corporation. A The Windows 11 Home ope protected by trademark an rights in the United States	Vindows 11 521. 1992) All rights reserved. erating system and its user interface are ad other pending or existing intellectual property and other countries/regions.	· ·
This product is licensed und <u>Terms</u> to: Windows User	der the <u>Microsoft Software License</u>	
		ок

**If your Windows version is earlier than 18298, then you need to upgrade. To update, please refer to the Microsoft Windows Help desk.*

- 2) Setting up New PIN [Windows11 Home version 22H2 OS 22621]
 - 1. Click the [**Start**] button on your desktop's taskbar.



2. Find and launch [Settings] from the Start screen.



2) Setting up New PIN [Windows11 Home version 22H2 OS 22621]

3. From Settings, Click [①Accounts] – [②Sign-in options]



- 2) Setting up New PIN [Windows11 Home version 22H2 OS 22621]
 - 4. Make sure the [Manage] button is enabled in [Security Key], then click the [Manage] button.



2) Setting up New PIN [Windows11 Home version 22H2 OS 22621]

5. When you insert the T110/T120 into the USB port, the white LED indicator lights up. The white LED indicator on the security key flashes as the Windows Hello installation window appears, as shown in the figure below. At this point, touch the touch sensor on the security key.



- 2) Setting up New PIN [Windows11 Home version 22H2 OS 22621]
 - 6. Click [Add] button of Security Key PIN

Windows	Windows Hello setup X		
•••	Security Key PIN Creating a PIN for your sec	curity key helps keep you secure	
	Add		
C	Reset Security Key	,	
	Remove everything from the factory settings	his security key and reset to	
	Reset		
		Ch-	
		Close	

2) Setting up New PIN [Windows11 Home version 22H2 OS 22621]

7. Enter your security key PIN, then click [OK] button to complete PIN registration.

(we recommend using 4~63 alphanumeric characters, upper and lower letters, numbers, and special characters).



3) How to delete PIN [Windows11 Home version 22H2 OS 22621]

Notice!

The process of deleting a PIN is the same as a factory reset, which means that all data and credentials in the security key are lost.

1. Click the [**Start**] button on your desktop's taskbar.



2. Find and launch [Settings] from the Start screen.



- 3) How to delete PIN [Windows11 Home version 22H2 OS 22621]
 - 3. From Settings, Click [①Accounts] [②Sign-in options]



- 3) How to delete PIN [Windows11 Home version 22H2 OS 22621]
 - 4. Make sure the [Manage] button is enabled in [Security Key], then click the [Manage] button.



3) How to delete PIN [Windows11 Home version 22H2 OS 22621]

5. When you insert the T110/T120 into the USB port, the white LED indicator lights up. The white LED indicator on the security key flashes as the Windows Hello installation window appears, as shown in the figure below. At this point, touch the touch sensor on the security key.



- 3) How to delete PIN [Windows11 Home version 22H2 OS 22621]
 - 6. Click the [**Reset**] button under 'Reset security key' as shown below.

Windows	Hello setup	×	
	Security Key PIN Creating a PIN for your	security key helps keep you secure	
	Change		
C	Reset Security Ke	ey	
	Remove everything fron factory settings	n this security key and reset to	
	Reset		
		Close	

- 3) How to delete PIN [Windows11 Home version 22H2 OS 22621]
 - 7. Click [Proceed] button.

Windows Hello setup	×
Reset Security Key	
The security key will be reset to f credentials on this key will be cle	actory settings. All data and ared.
Proceed	Cancel

- 3) How to delete PIN [Windows11 Home version 22H2 OS 22621]
 - 8. Please reinsert your security key.

Windows Hello setup	×
	┛
Reinsert your security key.	
Learn more	
	Cancel

- 3) How to delete PIN [Windows11 Home version 22H2 OS 22621]
 - When the LED indicator flashes white, touch the security key's touch sensor twice within 10 seconds. If it times out, reinsert the security key and touch it twice.

Windows Hello setup	\times
	┛
Touch your security key twice with	bin 10 seconds
Learn more	
	Cancel

3) How to delete PIN [Windows11 Home version 22H2 OS 22621]

10. Click the [**Done**] button to remove everything from the security key and complete the factory reset.

Windows Hello setup		×
Reset Complete.		
	Done	

- 4) How to change PIN [Windows11 Home version 22H2 OS 22621]
 - 1. Click the [**Start**] button on your desktop's taskbar.



2. Find and launch [Settings] from the Start screen.



- 4) How to change PIN [Windows11 Home version 22H2 OS 22621]
 - 3. From Settings, Click [①Accounts] [②Sign-in options]



- 4) How to change PIN [Windows11 Home version 22H2 OS 22621]
 - 4. Make sure the [Manage] button is enabled in [Security Key], then click the [Manage] button.



- 4) How to change PIN [Windows11 Home version 22H2 OS 22621]
 - 5. Click [Change] button of Security Key PIN.

Windows Hello setup X			
	Security Key PIN		
	Creating a PIN for your see	curity key helps keep you secure	
C	Reset Security Key	,	
\cup	Remove everything from this security key and reset to factory settings		
	Reset		
		Close	

- 4) How to change PIN [Windows11 Home version 22H2 OS 22621]
 - Enter the security key PIN in field ①, and then enter the new security key PIN in fields ② and ③ below, and click the [OK] button to complete the 'Change your security key PIN'

Windows Hello setup X					
Chang	ge your s	security k	ey PIN		
•••	••••	1			
•	••••	2			
	••••		3)		0
	OK			Cancel	

5) How to Unlock a key [Windows11 Home version 22H2 OS 22621]

1. When the user fails to type the correct PIN four times consecutively, then the below message appears. The User needs to pull out and reinsert the security key and type the correct PIN.

Windows Security	×	
Continue setup		
Ē	3	
Too many incorrect PINs. Remove and reinsert your security key.		
	Cancel	

- 5) How to Unlock a key [Windows11 Home version 22H2 OS 22621]
 - 2. If the user continues to type in incorrect PIN more, the user will get this message.

Windows Security		×	
Continue setup			
Too many inco ei	rrect PIN attempts. Please nter A1B2C3.		
Challenge phr	ase		
ОК	Cancel		

The above message is a mechanism to make sure that the keyboard input is correct. If the user types A1B2C3 correctly, the system assumes that the keyboard is working correctly.

- 5) How to Unlock a key [Windows11 Home version 22H2 OS 22621]
 - 3. Then, the final warning message pops out.



5) How to Unlock a key [Windows11 Home version 22H2 OS 22621]

4. If the user types the incorrect PIN for the last time, the security key is locked.

Windows Security	×
Continue setup	
You've entered incorred	rt PINs too many times.
Use a different sign-in IT suppor	option, or contact your rt person.

5) How to Unlock a key [Windows11 Home version 22H2 OS 22621]

5. If the security key is fully locked, the following are the steps that you need to take for a factory reset. (page 18~26)

After that, go through the 'Setting up new PIN' process again before using it.(Page 12~17)

Windows	Hello setup	×	
	Security Key PIN Creating a PIN for your see Change	curity key helps keep you secure	
C	Reset Security Key	,	
	Remove everything from t factory settings	his security key and reset to	
	Reset		
		Close	

Warning!

There is no recovery mechanism when the device (security key) is locked due to multiple incorrect PIN attempts. Once the security key is locked, then the key cannot be used at all. The only way to make the security key operational is to do a "factory reset" of the security key. A factory reset removes the existing data and all previously created credentials.

6) How to Factory Reset a Key [Windows11 Home version 22H2 OS 22621]

Warning! A factory reset removes the existing data and all previously created credentials.

The process for 'factory Reset' and 'deleting a PIN' is the same. Go to <u>17 page</u> to perform a factory reset.
1) macOS, Linux version check

1. Check out the MacOS and Linux versions supported by TrustKey Security Keys below.

Device Platform	Version	Note	
MacOS	Mojave or later		
Linux	Latest version	64 bit Ubuntu 14.04 or later, Debian 8 or later, openSUSE 13.3 or later, Fedora Linux 24 or lat er.	

버전 확인 방법

Mac OS : https://support.apple.com/en-us/HT201260

Linux :

①Open [Terminal]
②Enter the following command in [Terminal] cat /etc/*-release
③Check the operating system information displayed.

2) Setting up New PIN

Notice!

Registering, changing, and deleting PINs on Mac OS and Linux requires the **Chrome browser**.

1. Using the Chrome browser, sign in your Google Account and ①Press the [More(:)] button and click 'Settings' – ②Select [Privacy and Security] – ③Select [Security]



5. Setting Up Security Key in mac OS, Linux 2) Setting up New PIN

2. Click [Manage security keys] in bottom of the page.



2) Setting up New PIN

3. Choose [Create a PIN].

-> C O Chrome chrome://se	ungsjsecuntykeys		U X U 🤘
Settings	Q Search settings		
You and Google	← Manage security keys		
Autofill and passwords			
Privacy and security	Manage phones Control which ohones you use as security keys	5	
Performance	Create a PIN		
Appearance	Protect your security key with a PIN (Personal Identification Number)	,	
Search engine	Sign-in data Manae sion-in data stored on your security key	,	
Default browser	monage orgin in deal and not on your adamity may		
On startup	Fingerprints Add and delete fingerprints saved on your security key		
Languages	Reset your security key This will delete all data as the security key including its DN	,	
Downloads	This will defete all data of the security key, including its rink		
Accessibility			
Suctom			
, ayatan			
Reset settings			
Extensions			
About Chrome			

2) Setting up New PIN

4. When you insert the T110/T120 into the USB port, the white LED indicator lights up. At this point, touch the touch sensor on the security key.

Create a PIN		
To continue, insert and touch your security key		
	Cancel	Save

2) Setting up New PIN

5. Enter the security key PIN in field ①, and then re-enter the PIN in fields ②. After then click
[Save] button to complete the PIN registration.
(A PIN must be at least 4 characters long and can contain letters, numbers, and other characters.)

Create a PIN				
Enter your new PIN letters, numbers, ai	. A PIN must b nd other chara	e at least 4 characte cters.	rs long and c	an contain
PIN	Confirm PIN			
<u> </u>	2	O		
			Cancel	Save

2) Setting up New PIN

6. Click the **[OK]** button to complete the PIN creation.

Create a PIN

Your PIN was created



5. Setting Up Security Key in mac OS, Linux 3) How to Delete PIN

Notice1

The process of deleting a PIN is the same as a factory reset, which means that all data and credentials in the security key are lost.

Notice 2

You must use the Chrome browser to register, change, and delete your PIN on Mac OS and Linux.

1. Using the Chrome browser, sign in your Google Account and ①Press the [More(:)] button and click 'Settings' – ②Select [Privacy and Security] – ③Select [Security]



5. Setting Up Security Key in mac OS, Linux 3) How to Delete PIN

2. Click [Manage security keys] in bottom of the page.



3) How to Delete PIN

3. Choose [Reset your security key].

Setting You and Go Autofil and Privacy and Privacy and Appearance Search eng Default bro On startup	IS orgie d passwords d security ce e e aine: wwser	Gearch settings Control which phones Control which phones you use as security keys Create a PN Protect your security key with a PNI (Personal Identification Number) Sign-in data Manage soluri- data stored on your security key	*	
 You and Go Autofill and Privacy and Performand Appearance Search eng Default bro On startup 	ogle d passwords d security e e jine wser	Manage security keys Manage phones Control which phones you use as security keys Create a PN Protect your security key with a PNI (Personal Identification Number) Sign-in data Manage Son-in data stored on your security key	×	
Autofill and Privacy and Performance Appearance Search eng Default bro On startup	d passwords d security e gine wser	Manage phones Control which phones you use as security keys Create a PN Protect your security key with a PN (Personal Identification Number) Sign-in data Manage scin-it data stored on your security key	x 	
 Privacy and Performand Appearance Search eng Default bro On startup 	d security ce e gine wwser	Manage phones Control which phones you use as security keys Create a PN Protect your security key with a PN (Personal Identification Number) Sign-in data Manage sign-in data stored on your security key	•	
 Performance Appearance Search eng Default bro On startup 	ce jine wyser	Create a PN Protect your security key with a PN (Personal Identification Number) Sign-in data Manaes down-in data stored on your security key	,	
 Appearance Search eng Default bro On startup 	e jine wyser	Protect your security key with a PIN (Personal Identification Number) Sign-in data Manae Gion-in data stored on your security key		
Search eng Default bro On startup	gine owser	Sign-in data Manage sign-in data stored on your security key		
Default bro On startup	owser		,	
) On startup				
		Fingerprints Add and delete fingerprints saved on your security key	<u>, e</u>	
) Languages		Reset your security key This will delete all data on the security key, including its PIN		
Downloads				
Accessibilit	ty			
System				
) Reset setti	ngs			
Extensions				
About Chro	ome			

5. Setting Up Security Key in mac OS, Linux 3) How to Delete PIN

4. Remove the security key from the USB port, reinsert it, and touch the touch sensor when the white LED flashes.

Reset your security key	
To continue, remove your security key from your device, then touch it	reinsert and
	Cancel

3) How to Delete PIN

5. Click the **[OK]** button to confirm the deletion of all data stored in the security key.



4) How to Change PIN

Notice 1

You must use the Chrome browser to register, change, and delete your PIN on Mac OS and Linux.

Notice 2

You can only change the PIN for security keys that already have a PIN registered.

1. Using the Chrome browser, sign in your Google Account and ①Press the [More(:)] button and click 'Settings' – ②Select [Privacy and Security] – ③Select [Security]



5. Setting Up Security Key in mac OS, Linux 4) How to Change PIN

2. Click [Manage security keys] in bottom of the page.



4) How to Change PIN

3. Choose [Create a PIN].



4) How to Change PIN

4. When you insert the T110/T120 into the USB port, the white LED indicator lights up. At this point, touch the touch sensor on the security key.

Create a PIN		
To continue, insert and touch your security key		
	Cancel	Save

4) How to Change PIN

 Enter the security key PIN in field ①, and then enter the new security key PIN in fields ② and ③ below, and click the [Save] button to complete the 'Change your security key PIN'

Change a PIN	
Enter your current P reset the security ke	N to change it. If you don't know your PIN, you'll need to y, then create a new PIN.
Current PIN	
1	0
Enter your new PIN. letters, numbers, an	A PIN must be at least 4 characters long and can contain d other characters.
2	3
	Cancel

5) How to Unlock a Key

1. When the user fails to type the correct PIN four times consecutively, then the below message appears. The User needs to pull out and reinsert the security key and type the correct PIN.



2. If the user types the incorrect PIN for the last time, the security key is locked. If the security key is completely locked, press the [OK] button to return to the previous step.



5) How to Unlock a Key

4. Click [**Reset your security key**] to initialize the security key, and then proceed with the security key PIN registration process.

(Reset your security key: page 44, Create a PIN : page 38)

Settings	Q. Search settings		
You and Google	← Manage security keys		
Autofill and passwords			
Privacy and security	Manage phones Control which phones you use as security keys		
2) Performance	Create a PIN		
Appearance	Protect your security key with a PIN (Personal Identification Number)	,	
२. Search engine	Sign-in data	,	
Default browser	Manage sign-in data stored on your security key		
り On startup	Fingerprints Add and delete fingerprints saved on your security key	2	
Languages	Reset your security key	,	
Downloads	This will delete all data on the security key, including its PIN		
Accessibility			
System			
3 Reset settings			
Extensions			
About Chrome			

6) How to Factory Reset a Key

Warning! A factory reset removes the existing data and all previously created credentials.

The process for 'Factory Reset' and 'Deleting a PIN' is the same. Go to <u>44 page</u> to perform a factory reset.

1) Install the Key Manager

*Key Manager is a program to manage PIN for security key as well as registering/managing OTP features of the security key.

 Make sure that KeyManager[™] application is download on your PC. Please download the correct version for your OS. For Windows, you can download the file (version 1.1.3)

- file name : Key Manager 1.1.1 Setup (Win)

https://trustkey.kr/sub/support.form



- 2) Setting up New PIN
 - 1. Launch KeyManager program and insert T110/T120 into a USB port.
 - 2. Enter PIN and confirm PIN.
 - PIN must be at least four (4) characters long.
 - PIN can be digits, characters, and mixture of them.



- 2) Setting up New PIN
 - 3. Click [SAVE] button.



3) How to Delete PIN

'Deleting a PIN' using Key Manager is the same process as the 'factory reset'. Go to <u>66 Page</u> to perform a factory reset.

Note that the factory reset will NOT erase TOTP/HOTP accounts. Please remove all OTP accounts before the factory reset.

- 3) How to Change PIN
 - 1. Click **[**] setup button.



- 3) How to Change PIN
 - 2. Click [CHANGE PIN] button.



3) How to Change PIN

3. Enter the ① Current PIN, ② PIN (New PIN), ③ Confirm PIN. After then, click [SAVE] button.



- 3) How to Change PIN
 - 4. You have updated PIN for the security key.



4) How to Unlock a Key

1. If you enter the wrong PIN **three times** in a row, you will receive a warning message as shown below and the security key will be completely locked. In this case, go to the <u>66 page</u> to perform a factory reset and proceed with the PIN registration process.



6) How to Factory Reset a Key

1. Click [FACTORY RESET].

This will reset PIN and other FIDO2 related credentials. Note that the factory reset will NOT erase TOTP/HOTP accounts. Please remove all OTP accounts before the factory reset.



- 6) How to Factory Reset a Key
 - 2. Click [PROCEED] button.



- 6) How to Factory Reset a Key
 - 3. Remove your security key from USB port.



- 6) How to Factory Reset a Key
 - 4. Reinsert the security key.



6) How to Factory Reset a Key

5. Touch the sensor to complete the reset process.



Note:

The user needs to touch the key within 10 seconds after the key reinsert. Otherwise, the whole factory reset process will be aborted and needs to start from the beginning.

- 6) How to Factory Reset a Key
 - 5. You have reset security key to factory settings.



OTP (One Time Password) is a user authentication method that uses randomly generated, one-time passwords.

It was introduced to overcome security vulnerabilities caused by repeatedly using the same password by generating a one-time password for each login.

TrustKey FIDO security key can store OTP accounts. You can keep 50 OTP accounts – a max of one (1) HOPT account or a maximum of 50 TOTP accounts or a combination of HOTP and TOTP accounts adding up to 50 accounts.

- TOTP (Time based One Time Password)

A time-based, OTP that allows you to authenticate with a password that is valid for a period of time, typically 30 or 60 seconds. It's used by many hardware devices, including GitHub, Google, and Microsoft's Authenticator app, and you can use T110/T120 to generate TOTP passwords through Key Manager.

- HOTP (HMAC based One Time Password)

This method allows you to authenticate using a counter-based one-time password generated from a security key. T110/T120 can authenticate and log in to accounts set up with short touch and long touch without using Key Manager.
- 7) Using the TOTP Security Key
 - Setting up TOTP accounts using QR scan (GitHub example)
 - 1. Open Key Manager and Click [+ADD ACCOUNT]



* A GitHub account setup example is given here. The method of setup may be different on other websites.

7) Using the TOTP Security Key

 Setting up TOTP accounts using QR scan (GitHub example)

2. After signing in with your ID/PW on GitHub, go to Settings(①) – Password and authentication(②) – click Enable two-factor authentication(③).

→ C ①	gs/security		ଓ 🗟 🖻 ☆ 💷 🛊 🔲 (
아마존 N NAVER 🗕 MyDHL 🌨 Re		al Portal 🚱 WithN Board Admin 🔗 🚯 역설로 아마존 프로 🖉 아마존 관련 브런지 🚯 [Google Analytics] 🚳 대한민국 아마존 US 👋 열 잘하는 마케터를 🌘	🗿 [아마존 FBA] 02. Inv 🗾 아마존 설리를 위한
Settings		Q Type () to search	Sente Automati
			Set status
	Your personal account	Go to your personal profile	A Your profile
	A Public profile	Change password	📮 Your repositories
	los Account	51	III Your projects
	& Appearance	Old password	🖶 Your codespaces
	骨 Accessibility		Your organizations
	Q Notifications	New password	Your enterprises
	A		☆ Your stars
	Access	Confirm new naceword	♡ Your sponsors
	Dilling and plans V		 Your gists
			1 Upgrade
	(w) Sessions	Make sure it's at least 15 characters OR at least 8 characters including a number and a lowercase letter. Learn more.	Try Enterprise
	O SEH and CDC keys	opuate passion	B Toy Conjust
	Organizations		A Feature preview
	Ciganizations	Two-factor authentication	1 stat Sattinge
	Interprises		
	C Moderation V	A	GitHub Docs
	Code, planning, and automation		R GitHub Support
	Repositories	Two-factor authentication is not enabled yet.	Sign out
	E Codespaces	Two-factor authentication adds an additional layer of security to your account by requiring more than just a	
	Packages		
	😁 Copilot	Enable two-factor authentication	
	🖺 Pages	Learn more	
	← Saved replies		
	Security		

7) Using the TOTP Security Key

 Setting up TOTP accounts using QR scan (GitHub example)

3. Once the authentication QR code is generated, click the ①[SCAN] button in Key Manager to scan the QR code. Then set a ②Name and click
③[SAVE] button to register a TOTP account on GitHub.

Enable two-factor a	uthentication (2FA)
1 2	3
Setup authenticator app	
Authenticator apps and browser extensions like <u>1Passwo</u> time passwords that are used as a second factor to verify	Ord Authy, Microsoft Authenticator, etc. generate one- Ord TrustKey Solutions Key Manager - X
Scan the QR code	T110 🎃
Use an authenticator app or browser extension to scan. <u>I</u>	New Account
	Name* Github
Example QR Code	
	SCAN MANUAL ENTRY
Unable to scan? You can use the <u>setup key</u> to manually c	Ensure that the OTP QR code is completely visible on the screen and press the Scan button
Verify the code from the app	below
	7UFPMINPFAMGYXUS
	(3)

7) Using the TOTP Security Key

 Setting up TOTP accounts using Manual Entry (GitHub example)

Instead of using the SCAN button, get the
 setup key and @enter it in Key Manager via
 'MANUAL ENTRY' and click the ⑤[SAVE] button.

Your two-factor secret 7UFPMINPFAMGYXUS	×		
Setup authenticator app	TaustKay Solutions Kay Managar		~
Authenticator apps and browser extensions like <u>1Par word</u> . Authy, <u>Microsoft</u> , time passwords that are used as a second factor to ve ity your identity when Scan the QR code Use an authenticator app or browser extension to scan. Leven more about en Example QR Code Unable to scan? You can use the <u>setup key</u> to manually configure your authe Verify the code from the app XXXXX	TrustKey Solutions Key Manager TOTP SCAN MANUAL ENTR TOTP SCAN MANUAL ENTR TOTP Enter the HOTP secret key below Secret Key* TUFPMINPFAMGYXUS (A) Digits 6	·	×
	CANCEL	SAVE	

7) Using the TOTP Security Key

 Setting up TOTP accounts using QR scan (GitHub example)

4. After selecting the TOTP account stored in Key Manager, place the cursor in the field where you want to enter the TOTP and touch or click the [COPY] button while the key's LED light is blinking.

TrustKey Solutions Key Manager	– 🗆 X	🔮 TrustKey Solutions Key Manager — 🗆 🗙
T110 Key Connected	۵	T110 ¢
Accounts (1/50)	+ ADD ACCOUNT	Accounts (1/50) + ADD ACCOUNT
Github TOTP	:	Github
		One-time Code
		(16)
		0 3 9 6 7 8
		Place your cursor in the password input and code will be typed in
		CANCEL

7) Using the TOTP Security Key

 Setting up TOTP accounts using QR scan (GitHub example)

5. Github verify the TOTP sequence based on the code given by the QR code.



7) Using the TOTP Security Key

 Setting up TOTP accounts using QR scan (GitHub example)

6. After downloading the recovery codes, click the [I have saved my recovery codes] button to finally activate the two-factor authentication on the Github website.



7) Using the TOTP Security Key

 Setting up TOTP accounts using QR scan (GitHub example)

7. Click the [**Done**] button to complete the two-factor authentication activation.



7) Using the TOTP Security Key

③ How to Using a TOTP

1. After logging in with your ID/PW on the website (Github), open Key Manager to insert your T110/T120 and enter your PIN.



7) Using the TOTP Security Key

③ How to Using a TOTP

2. Select the OTP account you registered in Key Manager.



7) Using the TOTP Security Key

③ How to Using a TOTP

3. Place the cursor in the TOTP field, touch the sensor while it's flashing, or click [Copy]button. Then paste the copied TOTP code into the TOTP field on the website to complete account authentication and login.

C Two-factor authentication	 TrustKey Solutions Key Manager – X T110 Key Connected
	Accounts (1/50) + ADD ACCOUNT Github
XXXXXX Verify Open your two-factor authenticator (TOTP) app or browser extension to view your authentication code	One-time Code
Having problems? • Use a recovery code or begin account recovery	Place your cursor in the password input and code will be typed in CANCEL COPY
Terms Privacy Docs Contact GitHub Support	

7) Using the TOTP Security Key

④ How to Delete a TOTP Slot

1. You can delete a set slot by selecting the [More(•)] button – [Delete] button.



- 8) Using the HOTP Security Key
 - ① Setting Up HOTP accounts (QR Code)
 - 1. Click [+ADD ACCOUNT] button.



8) Using the HOTP Security Key

① Setting Up HOTP accounts (QR Code)

2. You can set up an HOTP account by QR sacn as below. (If the server does not provide a QR code, go to the 88 page to continue the registration)

TrustKey Solutions Key Manager T110 Key Connected New Account Name* HOTP Acc1 (example)	
HOTP -	
SCAN MANUAL ENTRY Ensure that the OTP QR code is completely visible on the screen and press the Scan button below	
CANCEL SAVE	

- 8) Using the HOTP Security Key
 - Setting Up HOTP accounts (Manual Entry)
 - 1. If website don't provide a QR code, click 'MANUAL ENTRY'



- 8) Using the HOTP Security Key
 - Setting Up HOTP accounts (Manual Entry)

2–2. Input 'Security Key'. Note that the manual entry data should be in a Base32 format.



- 8) Using the HOTP Security Key
 - Setting Up HOTP accounts (Manual Entry)
 - 2-3. Select the number of digits (6-8 digits)



- 8) Using the HOTP Security Key
 - ② Setting Up HOTP accounts (Manual Entry)

2-4. Click [SAVE] button.

Depending on the configured slot HOTP, a long touch or short touch can generate an OTP value directly from the text field.

TrustKey Solutions Key Manager -		×
T110	1	¢
New Account		ł
Name* HOTP Acc1 (example)		l
Type HOTP	•	I
SCAN MANUAL ENTRY		I
Enter the HOTP secret key below		I
Secret Key* Encoding crqy7bihwska6fz46c7xxjvrk5r2q base32	•	I
Digits 6	-	I
		I
CANCEL	SAVE	

8) Using the HOTP Security Key

③ How to Replace a HOTP

1. You can replace the HOTP settings slot by selecting 'Configure Touch' for HOTP from the list of accounts.



8) Using the HOTP Security Key

③ How to Replace a HOTP

2 In the 'Short Touch' option, select the HOTP account you want to exchange for the short touch. This will swap the account between the short and long touch.



8) Using the HOTP Security Key

④ How to Delete HOTP Slot

1. If you want to delete an account listed in HOTP, you can delete it by clicking **More (**) button, and then click [**Delete**].



- 9) Setting Up Key Manager
 - ① Language Selection
 - 1. Click **[**] setup button.



9) Setting Up Key Manager

① Language Selection

2. Click Language to choose a different language than the default language. Currently, the KeyManager supports four languages.

(English/Korean/Japanese/German).

🤨 TrustKey Solutions Key	Manager	_	×
T110 Key Connected			A
General			
English Deutsch 日本語 한국어 Connected Key Deta	ils		
(CHANGE PIN FACTORY RESET]	

- 9) Setting Up Key Manager
 - ② Dark Mode
 - 1. Click **[**



- 9) Setting Up Key Manager
 - ② Dark Mode
 - 2. Tap the [Dark Mode] button to turn it on or off.



- 9) Setting Up Key Manager
 - ③ Key Manager Version Check
 - 1. Click [🏟] button.



- 9) Setting Up Key Manager
 - ③ Key Manager Version Check
 - 2. Click [About].

9 TrustKey Solutions Key Manager		—	×
T110 Key Connected			ń
General			
About			
TrustKey Solutions Key Manage	er		
Connected Key Details			
CHANGE PIN FACTORY RESE	T		

9) Setting Up Key Manager

④ The connected (inserted) Key Details

This section describes the key serial number and firmware version.

TrustKey Solutions Key Manager	—	×
T110 Key Connected		ń
General		
About		
Connected Key Details		
T110		
S/N: TATKRA210416001900		
Firmware Version: 2.10.136		
FACTORY RESET		

1) Microsoft Azure

[Azure AD user registration]

This is for individual registration of the organization with Azure AD accounts. The steps shown below are the case that a user uses www.office.com for the security key registration. The user can use one of the following sites for registration.

Registration Sites:

https://www.office.com, https://login.microsoftonline.com

1. The user needs to sign in at <u>www.office.com</u> using the user's ID and the password.



1) Microsoft Azure

2. Click ① 'Account Manage' in the top right corner – Click ② View account.



3. Select ①Security info - ②+Add method

	III My Sign-Ins \lor				
1	R Overview	Security info These are the methods you use to sign into you Default sign-in method: Authenticator app or + Add sign-in method	ar account or reset your password. 1 hardware token - code Change		
	Devices Privacy	Phane Phane Microsoft Authenticator Push multi-factor authentication (MFA)	1 m = 1 000	Change	Delete Delete
		Lost device? Sign out everywhere			

1) Microsoft Azure

4. Follow the registration flow.



- 1) Microsoft Azure
 - 5. Follow the registration flow.



1) Microsoft Azure

6. Guide to setting up a security key. Click the [OK] button.



7. Instructions for generating the key inside the security key. Click [OK]button.

×	<
ee the make and model of your	
ate a credential on your security having to type your username.	
s site will be kept on your	
Cancel	
	see the make and model of your ate a credential on your security having to type your username. is site will be kept on your Cancel

8. Insert T110/T120 security key into the USB port.



- 1) Microsoft Azure
 - 9. Enter your security key PIN Click [OK] button.



10. When the security key's LED flashes white, touch the security key's touch sensor.

\$	Windows Security		×		
Co	ntinue setup				
	Ē				
Touch your security key.					
		Cancel			

11. Enter a name for the security key, and then click the [Next] button.

Security key		×
Name your security key. This will help d	istinguish it from o	other keys.
T110		
	Cancel	Next

1) Microsoft Azure

12. Click the [**Done**] button to complete the security key enrollment.



12–1. You can find your registered secret key in 'Security Information'.

III My Sign-Ins \lor					
♀ Overview ۶ Security info	Security info These are the methods you use to sign into your account or reset your password.				
C Organizations	Default sign-in method: Authenticator app or	hardi .hange			
	+ Add sign-in method	Anna Cana			
Devices	& Phone	+82 1040199999	Change	Delete	
Privacy	Microsoft Authenticator Push multi-factor authentication (MFA)	iPhone 12 mini		Delete	
	Security key	T110		Delete	~
	Lost device? Sign out everywhere				

1) Microsoft Azure

[Sign in Windows (Azure AD joined)]

As the users registered the security key with their Azure accounts, the IT admin needs to configure the system so that users can sign in to their Windows PC with the security keys (example: setup at Microsoft Intune)


2) Google G-suite

[Security Key Registration]

1. The user needs to sign in with the existing account ID and password.

Google Sign in Use your Google Account	Google Welcome @trustkey.kr v
Email or phone	Enter your password
Not your computer? Use Guest mode to sign in privately. .earn more	Forgot password?
Create account Next	

2 Click (1) Acc	ount (the uppe	er right corner) – select	(2)	
	$\frac{\mathbf{\mathbf{a}} \cdot \mathbf{\mathbf{b}}}{\mathbf{a}} = \mathbf{\mathbf{b}} \cdot \mathbf{\mathbf{b}}$	Varifiaation'	\bigcirc	
Security turn	UI S Z SIEP	vermation		(1)
Google Account Q Search	Google Account		0	ſ
Home				
Personal info	Signing in to Google			
Data & personalization			2	
Security 2			• * 	
People & sharing	Password	Last changed Aug 8	>	
Payments & subscriptions	2-Step Verification	(3) on	>	
(i) About	App passwords	None	>	
	Ways we can verify it's you	u		
	These can be used to make sure it's real if there's suspicious activity in your acco	Ily you signing in or to reach you pount		
	Recovery phone	(650) 815-1808	>	
	Recovery email	Add an email address	>	
	Copyright ⓒ 2023 Tr	rustKey Co., Ltd. All Rights		100

Reserved

2) Google G-suite

3. Need to initial 2-step verification with your phone.

← 2-Step Verification



4. The user needs to add the security key for 2-step verification.

Add more	second steps to verify it's you
Set up addit	ional backup steps so you can sign in even if your other options aren't available.
Backup codes These printable one-time passcodes allow you to sign in when away from your phone, when you're traveline.	
	SET UP
	Google prompts
	After you enter your password, Google prompts are securely sent to every phone where you're signed in. Just tap the notification to review and sign in. To stop getting prompts on a particular phone, sign out of that phone. Learn more
	Note: If you sign in to your Google Account on any eligible phone, Google prompts will be added as another method for 2-Step Verification.
	ADD PHONE
C	Authenticator app Use the Authenticator app to get free verification codes, even when your phone is offline. Available for Android and IPhone.
	SET UP
	Backup phone Add a backup phone so you can still sign in if you lose your phone.
	ADD PHONE
0-	Security Key
- 1	A security key is a verification method that allows you to securely sign in. These can be built in to your phone, use Bluetooth, or plug directly into your computer's USB port.

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2) Google G-suite

5. Follow the browser's instructions.



Windows Security	×			
Continue setup				
This will let https://www.gstatic.com/securitykey/origins.json see the make and model of your security key				
OK Cancel				



2) Google G-suite

6. After successful registration, the user needs to name the key.





2) Google G-suite

[Sign-in Google using Security Key]

1. The user now can sign in Gmail with the security key.

Google	
Hi Trust	
0	
Enter your password	
Show password	
Forgot password?	Next

Windows Security ×		
Making sure it's you		
Please sign in to google.com.		
This request comes from Brave, published by Brave Software, Inc		
ð		
Touch your security key.		
Cancel		

2) Google G-suite

3. Touch the security key to complete login with two-step verification.



3) Bank of America

1. After logging into your account, select ① Profile & Setting – ② Manager SafePass.

BANK OF AMERICA 🥙 Online Banking	Your Contact Info	Profile & Setting: Account Settings	Saved Items 🖌 Sign Out
Accounts Bill Pay Transfer Zelle [®] Rewards & Deals Adv Plus Banking - 6087	Addresses Phone/Mobile numbers Email addresses Contact preferences	Paperless settings Mobile settings Alert settings Account nicknames Overdraft Protection	int Help & Support 🕈
Summary Feature Available balance (as of today): \$ \$1 What does this include? Overdit Benefit Account balance history> More for a start of the start	Security settings Security Center Change Online ID Change Passcode Manage SafePass	Manage card settings Digital Wallets & Virtual Cards	ices t/unlock ATM/debit card tr checks/deposit slips payment on a check services»
Activity Statements & Documents Information	Language/Idioma: En espa Preference	añol Set Language	^
Enter keyword, amount or mm/dd/yyyy P More options Newest Next Previous Oldest	Show deals: On 🗵 Downlo	ad ☑ Print this view	2

2. Click **Add** button from the 'Security Center' page.

BANK OF AMERICA Colline Banking	Profile & Settings	Saved Items 🥁 🔒 Sep How can we help you?	1 Ove
Accounts Bill Pay Transfer Zelle® Rewards & Deals Tools & Investing Security Center Open an Account Help & Support 🐥			
Additional Security Features Whenever extra protection is needed, we'll help keep your digital ba	nking sec	ure.	
Secure Transfer If you're transfering more than your daily limit, we require Secured Transfer to send the money. You'll need a U.S. mobile number and confirm your identity.	d debit card to	Edt	
USB Security Key If you want to add additional security for logging in, transferring money, or you don't have a U.S. mobile number, you can register a U if's you. Learn more about using USB Security Keys.	SB device to veri	y 633 (
A taran kas		En Español	Sign out
Locations Contact Us 🚉 Browse with a Specialist Privacy Security Online Banking Service Agreement <u>Advertising Practices</u> Share Your Feedback			
Investing in securities involves risks, and there is always the potential of losing money when you invest in securities. You should review any planned financial transactions that may advisor.	have tax or legal imp	lications with your personal ta	ix or legal
copyright © 2025 Hustikey co., Etd. All hights			

3) Bank of America

3. You will be sent Authorization Code via Text Message or Call to your phone when you click [SEND CODE] button.



4. Enter Authorization Code and Debit PIN then click [SUBMIT] button.



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- 3) Bank of America
- 5. Click [OK] to Security key setup popup.

BANKO	DFAMERICA 🥮 Online Ba	nking i Daals Tools & Investing Security Center Open an Account. Help & Support 🌲	Profile & Settings, Sened terris ' ¥' ∂ Sign Out How can we help you?
	Whenever extra	Additional Security Features	5 •I banking secure.
£	Secure Transfer If you're transferring more than your daily confirm your identity.	Using at Security key setup nty. Security key setup nty. Security key setup to sign in to bankofamerica.com as U0P User Name. This request comes from Chrome, published by Google LLC. P	er and debit card to Est
£	USB Security Key If you want to add additional security for I It's you. Learn more about using USB Sect	CK Cancel Cancel Security keys vary by manufacturer. We recommend FIDO® certified keys. Refer to your keys instructioned if you have touche completing regression. Security keys not used for six months will be removed from our system. All security keys must be renewed every three years or they will be deleted from our system.	er a USB device to verify Add
és Secure Ar	**		En Español : Sign ou
vesting in sec hisor. ecurities produ	unities involves risks, and there is always the potential unities involves risks, and there is always the potential	oncore to the second and the second s	hat may have fax or legal implications with your personal fax or legal strengt adviser, Member SIPC , and a wholly owned subsidiary of Back

6. Insert your security key and the touch the security key's sensor.

	anking	: Profile-& Settings : Saved larver 🦖 : 🔒 Segn Out. How can we help you?
Accounts Bill Ray Transfer Zelle [®] Researchs Whenever extra	Additional Security Features	banking secure.
Secure Transfer If you're transferring more than your daily confirm your identity.	Using a U Windows Security X my. Continue setup P Touch your security key.	r and debit card to Edit
USB Security Key If you want to add additional security for it's you. Learn more about using USB Sec	Cancel Cancel Genutry large target op Homozacidower, were recommined in Kolle Cancel Rey's instructions if you have touble completing registration. Becurity keys not used for six months will be removed from our system. All security keys must be renewed every three years or they will be deleted form our system.	ra USB device to verify dd C
A Secure Area	: Security Online Benking Service Agreement <u>Advertising Practices</u> Share Your Feedback	En Españal - Sign out
Investing in securities involves risks, and there is always the potential advisor. Securities products are provided by Merrill Lynch, Pierce, Fenner & D America Corporation. MLPF&G makes available certain investment ()	cet tooing money when you minist in securities, nou should evidew any planned financial transactions that with incorporated (also referred to as "McIPE&E" or "Merrill"), a registered broker-dealer, registered investm roducts sponsored, managed, distributed or provided by companies that are affiliates Bank of America Co	may have tax or legal impocations with your personal tax or legal ont advise; Member SIPC, and a wholly-owned subsidiary of Bank of poration.

3) Bank of America

7. If successful, you will see the message that shows the security key is successfully added.

BANK OF AMERICA Online Banking	file & Settings Soved Items ₩ 🔒 Sign Dut Filee can we help you?
Accounts Bill Pay Transfer (2004* Rewards & Deals Tools & Investing Security General Accounts (Help & Sepport) Additional Security Features Whenever extra protection is needed, we'll help keep your digital banking	ing secure.
Secure Transfer If you're transferring more than your daily confirm your identity. USB Security Keys You may save up to 2 security keys. To change the name of the key, select the device name.	bit card to Eat
USB Security Key If you want to add additional security for I If's you. Learn more about using USB Sec.	ievice to verify Add
B Secure Area Contact Us: [2] Browse with a Specialist Phracy Security Online Banking Service Agreement <u>Advectoing Practices.</u> Share Your Feedback	En Español Sign out
Investing in securities involves risks, and there is always the potential of losing money when you invest in securities. You should review any planned financial transactions that may have to advisor. Securities products are provided by Merrill Lynch, Pierce, Ferner & Smith Incorporated (also referred to as "MLPEAS" or "Merrill"), a registered troker-dealer, registered investment adviser, America Corporation. MLPEAS makes available certain investment products sponsored, managed, distributed or provided by compares that are affiliated Bank of America Corporation.	tax or legal implications with your personal tax or legal .

8. Logout of your account and the log back in. When you try to log back in, it will ask you to touch our security key to verify you are the owner of the account.

BANK OF AMERICA 🧤	Sign In		Secure Area En Español
Verify Your Identity			
[Windows Security	×	
loj	Making sure it's you Please sign in to bankofamerica.com.		
	This request comes from Chrome, published by Google LLC.		
	ð		
Secure area	Touch your security key.	_	
Bank of America, N.A. Member FDIC. Equa © 2021 Bank of America Corporation.	Cancel		

4) Other Online Services

	amazon	amazon webservices
P YouTube	facebook.	twitter
GitHub	1Passw@rd	UOGIN.GOV
yahoo!	CROWD SUPPLY	D bit warden
ebay		

Support is subject to change depending on the site operator's policy.

For more information, see the TrustKey homepage! <u>https://trustkey.kr/en/sub/support_app.form</u>

2. Appendix

1. FAQ

Using T-Series Security Keys

- 1. How do you enroll your fingerprint to the T-series seuciryt key? T-series does not support fingerprint enrolment. Please use TrustKey G and B series security keys (G310H and G320H, B210 and B210H).
- 2. How many resident keys do T-Series keys hold? T-Series keys can hold up to 150 resident keys.
- 3. How many TOTP accounts can T-series support? T-Series keys can hold up to 50 TOTP accounts.
- 4. Can I use T110 or T120 for Bank of America? Yes. T-series (T110/T120) supports Bank of America authentication mechanism.
- 5. Can I reset the security key to the factory setting? Factory Reset can be done through Key Manager. After installing Key Manager, click the Factory Reset button and reinsert the device. Next, touch the sensor within 10 seconds. You can refer to the Key Manager User Manual for details.
- 6. What happens if my key is lost or stolen? The best practice is always to ensure that you register more than one security key. Most websites that accept FIDO2 or U2F allow you to register more than one key. This gives you a backup should you lose a key.

Supported Platform · Environment

- 1. Which OS does Key Manager support? Key Manager supports Windows, macOS, and Linux
- Can I use the T-Series security key with Windows PC, Mac? Yes, the T-Series security key works with Windows PC, Mac. Moreover, it also works with Linux, Chromebook, and Android.
- Which web browsers do you support? T-Series security key works with all major web browsers, including Google Chrome, Microsoft Edge, Mozilla Firefox, Apple Safari, etc.
- 4. Which major online services are available that support FIDO2? Most major online service providers support/implement FIDO2 certification. Currently, Microsoft Azure Active Directory, Microsoft, GitHub, Dropbox, Twitter, Login.gov, etc., provide FIDO authentication service.

T-Series Security Key Features

- 1. Can I log in to Microsoft Azure Active Directory(AD) using my security key? T-Series security keys fully support Microsoft Azure AD. It can be used to sign in to Azure joined Windows PC online or offline/airplane mode.
- Can I use my security key in place of another vendor's U2F key? T-Series security keys are now available on various operating systems and platforms that offer U2F and FIDO2 certification services. Therefore, T-Series security keys can be used wherever U2F or FIDO2 is supported.
- 3. Can I use the security key on different computers? Sure! T-Series Security key is a roaming authenticator. It can be used in conjunction with more than one user device-supported USB port.

2. Safety precautions

- 1. Please do not disassemble, repair, or modify the security key arbitrarily.
- 2. Please do not expose the security key to direct sunlight for a long time.
- 3. Please do not store the security key at too low or too high a temperature
- 4. Please do not place the security key near or put it in a hot-air appliance (stove, microwave, etc.), heating cookware, or high-pressure container.
- 5. Please do not put the security key in a container filled with liquid.
- 6. Be careful not to drop the security key or subject it to impact.
- 7. Please do not store the security key in a humid place for a long time.
- 8. To clean the security key, lightly wipe it with a dry towel.
- 9. Please do not use the security key within reach of children.
- 10. When using the security key in a dry environment, be careful as static electricity may be generated.

3. Warranty and Consumer Dispute Resolution Policies

Standard Warranty

The standard warranty of the products is one year from the purchase except for the EU. (The EU mandates a two-year warranty.)

Consumer Dispute Resolution

Consumer Complaint			Resolution	
			Under warranty	After warranty
Malfunction un der normal conditions of use	When the product requires major repair within ten (10) days of purchase		Product exchange or full refund	None
	When the product requires major repair within one (1) month of purchase		Product exchange or refund	
	Product exchange not possible		Full Refund	
	When the exchanged product requires major repair within one (1) month			
	In case of damage caused during transportation when purchasing the product		Product exchange	
	Repair Possible	The same defects occur twice	Free Repair	
		The same defects occur three times		
		The same defects occur up to five times	Product exchange or full refund	
	Repair not possible	Repair is not possible		
	Exchange not possible	When repair is impossible because there are no repair parts within the parts retention period		Refund by adding 10% to the amount of straight- line depreciation
		If the product requested by the customer for repair is lost		Refund by adding 10% to the amount of straight- line depreciation (maximum limit: purchas e price)
malfunction due to the intention or negligence of the consumer	When the repair is possible		Repair with charge	Repair with charge
	When the repair is not possible		Exchange with charge	None

Service with Charge

- In case of malfunction due to the user's negligence in handling, disassembly, or assembly

- In case of external environmental problems caused by software (OS and application programs, viruses,

etc.) and Internet, antenna, wired signals, etc., not defective products

- In case of breakdown due to natural disaster (fire, salt damage, flood damage, etc.)

4. Manufacturer Information

Manufacturer

Manufacturer	TrustKey Co., Ltd.
Technical Support	TEL:+82-2-556-7878 / email:support@trustkey.kr
Webpages	www.trustkey.kr/
Addresses	(06236) 2F, 14, Teheran-ro 22-gil, Gangnam-gu, Seoul, Korea

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5. FCC Warning Statements

1. FCC Part 15.19 statements:

This device complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions:

(1) this device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.

2. FCC Part 15.105 statement:

This equipment has been tested an found to comply with the limits for a Class B digital device, pursuant to part 15 of the FCC Rules.

These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and , if not installed and used in accordance with the instructions, may cause harmful interference to radio communications.

However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into and outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.
- 3. FCC part 15.21 statement:

Any changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate this equipment.

Supplier's Declaration of Conformity:

47 CFR §2.1077 Compliance Information

Unique Identifier : H-series Security Keys (eFA310h, eFA320h, b210h)

Responsible Party – U.S. Contact Information TRUSTKEY Solution Global. 702 Hayes, Irvine, Ca 92620, USA

+1 (509) 418-6130



TrustKey H.Q Customer Service

+82-2-556-7878

• Please provide the model number of the TrustKey security key you are using and the symptoms of the error so we can provide a faster and more accurate response.

Contact Us [Online]

trustkey.kr/en/sub/support.form

• Download the latest user manuals and applications for your product.

trustkey.kr/en/sub/contactus.form

• You can make sales/technical support and after-sales service inquiries about our products online.