

# eSecu FIDO2 Pro+ Fingerprint Key User Manual (V1.2)

Excelsecu Data Technology Co., Ltd.

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### **1. Important Instructions**

Thank you for using eSecu FIDO2 Pro+ Fingerprint Key!

Please read this manual before operating your eSecu FIDO2 Pro+ Fingerprint Key and keep it for future reference.

## 2. Product Overview

eSecu FIDO2 Pro+ Fingerprint Key is a hardware authenticator supporting FIDO2 standard and FIDO U2F standard, as well as Bluetooth, NFC and fingerprint module. It can be used on FIDO2enabled or U2F-enabled services and applications' two-factor authentication, multi-factor authentication or passwordless authentication. The fingerprint module and multiple interfaces make it easier and safer for you to complete authentication on PCs and mobile devices.

## **3. Product Picture**



The key has the following lighting states:

**Steady red light**: Insert the FIDO2 Pro+ Fingerprint Key in the computer's USB port. / Fingerprint verification fail.

**Flashing red light**: Need to touch. / low power state. Blinking red light every 5 seconds. Please charge it in time.

Flashing green light: Fingerprint enroll / Need to verify fingerprint.

**Steady green light**: When the FIDO2 Pro+ Fingerprint Key is placing on an NFC card reader or on the NFC sensor of a mobile device.

**Steady blue light:** long press the fingerprint sensor for 5 seconds to enter the Bluetooth pairing mode for the first time. After paired successfully, the steady blue light turns to flashing blue light.

Flashing blue light: short press the fingerprint sensor to enter the Bluetooth mode.

### 4. FIDO2 Fingerprint Key Management

Before using FIDO2 Pro+ Fingerprint Key, fingerprint is always required to be enrolled via USB. Currently, there are three methods to manage FIDO2 Pro+ Fingerprint Key: eSecu FIDOManager, Windows settings and Chrome Browser.

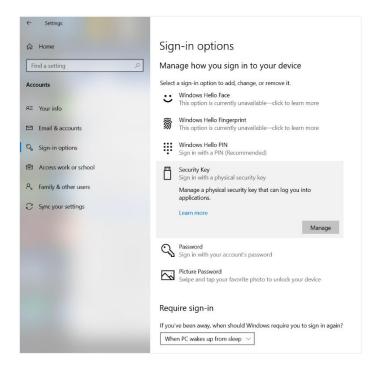
#### 4.1. eSecu FIDOManager

The Software used to configure the FIDO and OTP (HOTP/TOTP) and fingerprint's enrollment, test, remove, reset is described in document of "Excelsecu Manager User Manual", you can refer to it for more details.

#### 4.2. Windows Settings

You can set up your eSecu FIDO2 Pro+ Fingerprint Key straight from **Setting** page if the platform is **Windows 10 version 1903 (build 18298) or above**. In **Setting -> Accounts -> Signin options -> Security Key**, you are able to manage fingerprint, PIN or reset your eSecu FIDO2 Pro+ Fingerprint Key.





#### 4.3. Chrome Browser

**Chrome Version 79 or above on Windows, Mac or Linux** are able to manage eSecu FIDO2 security keys. Here we take Windows as an example.

Note: if you are using Chrome on Windows 1903, you need override this by running Chrome as Administrator with the command line flag:

--disable-features=WebAuthenticationUseNativeWinApi.

Go to **chrome -> settings -> Privacy and security -> more -> Manage security keys**, or directly visit the link: <u>chrome://settings/securityKeys</u>, then you are able to manage PIN, sign-in data, fingerprints and reset.



← -	C O Chrome   chrome://settings/securityKeys		
Sett	ings	Q Search settings	
•	You and Google	← Manage security keys	
ê <b>?</b>	Autofill Privacy and security	Create a PIN Protect your security key with a PIN (Personal Identification Number)	•
<b>ଜ</b> ୦	Appearance Search engine	Sign-In data View and delete sign-In data stored on your security key	•
	Default browser	Fingerprints Add and delete fingerprints saved on your security key	•
U Adva	On startup	Reset your security key This will delete all data on the security key, including its PIN	•
	usions 🖸		

# 5. The Basic Operation of FIDO2 Pro+ Fingerprint Key

#### 5.1. Register (First Time Only)

- Enter the username and password to log in to any application that supports FIDO U2F/FIDO2.
- 2. Insert the FIDO2 Pro+ Fingerprint Key in your computer over USB connection.
- 3. Add the FIDO2 Pro+ Fingerprint Key to your account(s).

#### 5.2. Signing-In (After Completing Registration)

- 1. Open the website you want to log in.
- 2. Enter your usual username and password (for U2F-enabled services).
- Connect the registered FIDO2 Pro+ Fingerprint Key to a mobile device (Bluetooth/NFC mode) or PC (USB mode).
- 4. When prompted, authenticate with a simple touch of the fingerprint module to sign in or tap the Key on an NFC sensor.

#### 5.2.1. Bluetooth Pairing Mode (First Time Only)

- Long touch metal edge of the sensor for 5 seconds to enter the Bluetooth pairing mode for the first time. The indicator light is steady blue. If there is no pairing request received in 60 seconds, the indicator light goes out and the FIDO2 Pro+ Fingerprint Key exits Bluetooth pairing mode.
- 2. Scan Bluetooth devices on your client side (e.g. a smart phone). Connect to the device which has the same SN as printed on the back of the FIDO2 Pro+ Fingerprint Key.
- Input 6-digits PIN as printed on the back of the FIDO2 Pro+ Fingerprint Key. When paired successfully, the blue light should start blinking.
- 4. When an authentication request is received, the light blinks red, place the finger on sensor to verity to complete the authentication.

For security purpose, the FIDO2 Pro+ Fingerprint Key will be forced to shut down after 30 seconds.

#### 5.2.2. Bluetooth Mode (Paired Before)

- Touch metal edge of the sensor to enter the Bluetooth pairing mode. The indicator light blinks blue.
- When an authentication request is received, the light blinks red, place the finger on sensor to verity to complete the authentication.

For security purpose, the FIDO2 Pro+ Fingerprint Key will be forced to shut down after 30 seconds.

#### 5.2.3. USB Mode

- Insert the registered FIDO2 Pro+ Fingerprint Key to the computer's USB port. The indicator light is red on all the time.
- 2. When an authentication request is received, the light blinks red, place the finger on sensor to verity to complete the authentication.

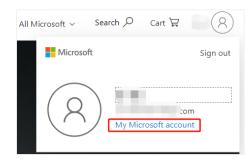
#### 5.2.4. NFC Mode

- 1. Please make sure NFC of the mobile device is turned on.
- Tap your registered FIDO2 Pro+ Fingerprint Key on the NFC sensor of mobile device when it's asking for a security key.
- 3. When an authentication request is received, the light blinks red, place the finger on sensor to verity to complete the authentication.

# 6. How to use FIDO2 Pro+ Fingerprint Key with Microsoft for passwordless login

#### 6.1. Register the FIDO2 Pro+ Fingerprint Key

1. Click "My Microsoft account" after signing in.



2. Select "Security".



Security
Update your security info
Make sure your info is up-to-date if you forget your password.
Update >

3. Click "more security options".

(+)
More security options
Try the latest security options to help keep your account safe.
Explore >

4. You will be asked to verify your identity.

Microsoft	Microsoft
com	← om
Verify your identity	Enter code
Email m	We emailed a code to mean and the code to sign in.
I have a code	Code
I don't have any of these	Don't ask me again on this device
	Verify

After the verification is passed, enter the "Additional security options" page, and click
 "Set up a security key" under "Windows Hello and security keys".



Windows Hello and security keys
Now you can sign in without a password using Windows Hello or security keys. A security key is a physical device (like a USB security key) that you can use to sign in to your account instead of a password. Learn more about signing in with Windows Hello or a security key.
Set up a security key
Set up Windows Hello
Manage your sign-in methods

6. Identify what type of key you have (USB or NFC) and click next.

Microsoft Account Your Info Privacy Security Payment & billing - Services & subscriptions Devices More -	२ <u>२</u>	8)
Set up your security key		
Have your key ready		
USB device NFC device		
To use a USB security key, when prompted, plug it into your USB port. Then touch the gold circle or button if your key has one when prompted for follow up action.		
For detailed instructions on how your keys should be connected, please visit your key manufacturer's website.		
Cancel Next		

 Insert your key into the USB port and touch your key to verify the fingerprint when the key flashes green light.

Insert your security key into the USB port.	Ö Touch your security key.
Cancel	Cancel

8. Name your FIDO2 Pro+ Fingerprint Key, and the registration is finished.



#### 6.2. Sign in with FIDO2 Pro+ Fingerprint Key

1. Click "Sign in".



2. Click "Sign in with a security key".

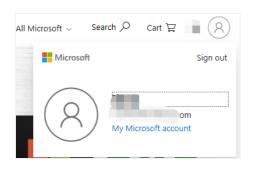


Sign in	
Email, phone, or Skype	
No account? Create one!	
Sign in with a security key 🥎	
Sign-in options	

 Insert your key into the USB port and touch your key to verify the fingerprint when the key flashes green light.

ð	ð
Insert your security key into the USB port.	Touch your security key.
Cancel	Cancel

4. Sign in successfully.



# 7. How to use FIDO2 Pro+ Fingerprint Key with Google for 2-Step Verification

#### 7.1. Register

Register FIDO2 Pro+ Fingerprint Key with your Google account to make it become the second authentication factor.

Log in to the website: <u>https://www.google.com/</u> and click Login in the top right corner.
 Enter your account name and password.



Google	
Hi	
y om ·	•
Enter your password	
	8
	Next

2. Once you have successfully logged in, click on your Google Account.

	Gmail Images 🏭
	vangchun wei
	@gmail.com Privacy
y j	
Change	Google Account
Add account	Sign out

3. Select security->2-step verification.

Google Account	Q Search Google Account			
Home	We keep your account protected			
E Personal info	The Security Checkup gives you personalized recommendates secure your account	ations to		
Data & personalization     Security				
Security     People & sharing	Get started			
Payments & subscriptions				
(?) Help	Signing in to Google			
Send feedback			* *	
	Password	Last changed 5 minutes ago	>	
	2-Step Verification	🥑 On	>	
	App passwords	None	>	
	Ways we can verify it's you These can be used to make sure it's really you signing in o	r to reach you		
https://myaccount.google.com/signinoptions/two-step-v	erification?utm_source=goo tivity in your account			

4. You will be asked to log in again.



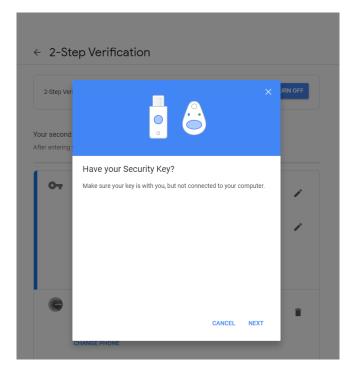
Go	ogle	
Hiya	3	
(V),	:::::: ₀" -om ∨	
To continue, first verify it's yo	pu	
Enter your password		
		Ċ

5. Click ADD SECURITY KEY.

2-Step \	/erification is ON since Jun 20, 2018	TURN OFF
Your seco	nd step	
After enteri	ng your password, you'll be asked for a second verification step	). Learn more
	Security Key (Default)	
01	FIDO (Added: June 26, 2018) Last used: Just now Chrome on Windows	1
۰۰ ۲	Last used: Just now	ľ
	Last used: Just now Chrome on Windows	1

6. Click NEXT to continue.





7. You will be prompted to insert your FIDO2 Pro+ Fingerprint Key into a USB port.



8. When the red light of the key is flashing, it means you are required to touch the key. Press

the fingerprint module on FIDO2 Pro+ Fingerprint Key.



9. Rename the FIDO2 Pro+ Fingerprint Key, click DONE to finish.



← 2-St		
2-Step Ver	$\bigcirc$	JRN OFF
Your second After entering	Security Key registered Your Security Key is registered. From now on, you'll use it to sign in with 2-Step Venification.	
07	Security Key name My FIDO2	1
		1
	DONE	
	uthenticator on Android dded: January 23, 5:12 PM	1

 The FIDO2 Pro+ Fingerprint Key becomes the default second authentication factor of your account. You will be asked to use it to complete 2-Step Verification when sign in to Google in the future.

2-Step	Verification is ON since Jun 20, 2018	TURN OFF
Your seco	nd step ng your password, you'll be asked for a second verification step	. Learn more
07	Security Key (Default) ⑦ FIDD (Added: June 26, 2018) Last used: Just now Chrome on Windows	1

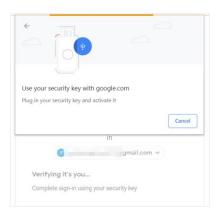
#### 7.2. Sign in (USB Mode)

Log in to the website: <u>https://www.google.com/</u> and click Login in the top right corner.
 Enter your account name and password, then click "Next".



Hi .	
	lom v
Enter your password	ø

 You will be prompted to insert your FIDO2 Pro+ Fingerprint Key into a USB port. When the red light of the key is flashing, press the fingerprint module on FIDO2 Pro+ Fingerprint Key.



3. Click Next to login.

Google
2-Step Verification
This extra step shows it's really you trying to sign in
🕐 **********
$\bigcirc$
You're all set
Don't ask again on this computer
Next

#### Note:

• By default, "Don't ask again on this computer" is checked. After checking the box, the next login will skip the two-step verification and log in directly with the user name and password.



• You can undo trusted devices in settings to restore the use of two-step verification. Click

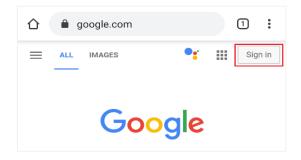
"Revoke All" to clear the trusted device.

	атоне раскир орнога о внасуор саназун нементнуош оннегаесоно этера агент ачанали
×	Backup codes
	These printable one-time passcodes allow you to sign in when away from your phone, like when you're traveling.
	SET UP
	Google prompt
	Get a Google prompt on your phone and just tap Yes to sign in.
	ADD PHONE
	at do not need a second step the second step on devices you trust, such as your own computer.
rou can skip	nie secona step on devices you aust, sach as your own comparer.
	Devices you trust

#### 7.3. Sign in (Bluetooth + Android Mobile Device)

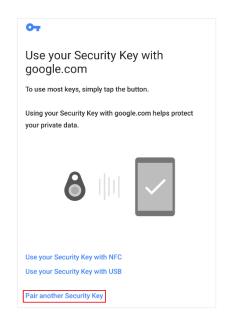
When using the FIDO2 Pro+ Fingerprint Key on an Android mobile device for the first time with Bluetooth connection, you need to pair them first.

- 1. Make sure the FIDO2 Pro+ Fingerprint Key is registered to your Google account.
- Turn on the Bluetooth connection on your Android device. Open the Chrome browser, and go to <u>https://www.google.com</u>, click the Sign in button on the top right corner, then enter the username and password.

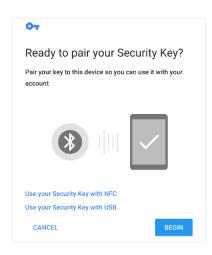


 If the 2-step Verification of your Google account is turned on, you will be asked to use your Security Key for verification. Click on Pair another Security Key.



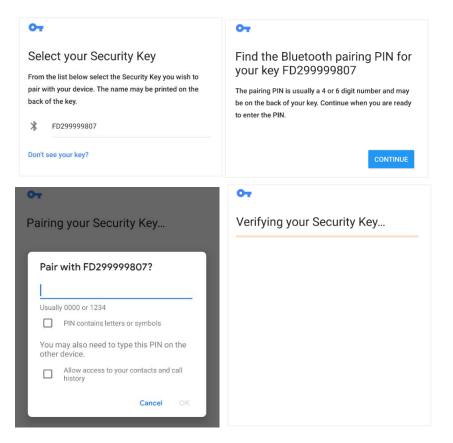


4. Press the fingerprint sensor on your FIDO2 Pro+ Fingerprint Key for over 5 seconds to active the Bluetooth pairing mode, the blue indicator light on the key shall steady on.



5. When the Android device detects the signal of the key, the serial number printed on the back of the key will show on the page. Select the serial number, click on **CONTINUE** and enter the 6-digit PIN as printed on the back of the FIDO2 Pro+ Fingerprint Key for pairing. When paired successfully, the indicator light on the key shall flashing blue, and the Google service will automatically verify your security key.





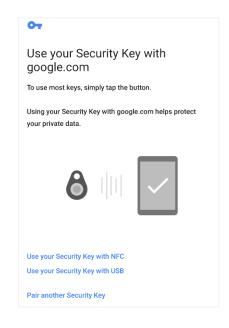
6. When the FIDO2 Pro+ Fingerprint Key receives an authentication request, the indicator light changes to flashing red from flashing blue, short press the button on the key to confirm the authentication, then you will be authorized to login with your account.

	Google
	2-Step Verification
Th	is extra step shows it's really you trying to sign in
	<b>1</b> 5 <sup>,</sup> com ∨
You	're all set
	Don't ask again on this computer
	Next

 When you are asked to do the 2-Step Verification on a paired Android device again, go through the Step 1~3 above, no need click on Pair another Security Key, just short press

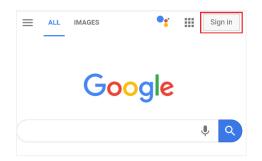


the fingerprint sensor enter the Bluetooth mode, and the indicator light shall flash blue. When the key receives an authentication request, the indicator light changes to flashing red from flashing blue, short press the fingerprint sensor again on the key to confirm the authentication, then you will be authorized to login with your account.



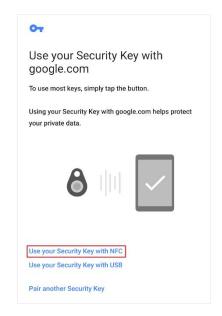
#### 7.4. Sign in (NFC + Android Mobile Device)

 Turn on NFC on your mobile device. Open the Chrome browser on your Android mobile device, and go to <u>https://www.google.com</u>, then click the Sign in button on the top right corner, then enter the username and password.



 If the 2-step Verification of your Google account is turned on, you will be asked to use your Security Key for verification, click on Use your Security Key with NFC.





 Hold your registered FIDO2 Pro+ Fingerprint Key flat against the NFC sensor of your mobile device. The authentication will complete in a while, and you will be authorized to login with your account.

07	Google
Allow using your Security Key? Hold your key flat against the back of your device until it stops vibrating	2-Step Verification This extra step shows it's really you trying to sign in 5 com v
	You're all set
Use your Security Key with Bluetooth	Don't ask again on this computer
Use your Security Key with USB	Next

#### 7.5. Sign in (Bluetooth + iPhone)

When using the FIDO2 Pro+ Fingerprint Key on an iPhone for the first time with Bluetooth connection, you need to pair them first.

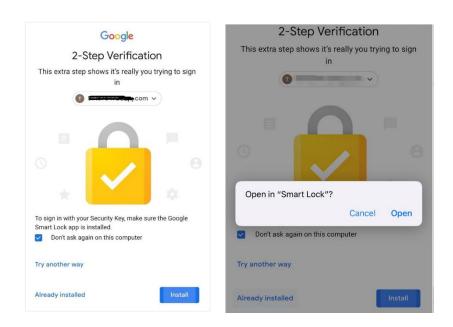
1. Make sure the FIDO2 Pro+ Fingerprint Key is registered to your Google account.



 Turn on Bluetooth connection on your iPhone. Open Safari, and go to <u>https://www.google.com</u>, click on Sign in on the top right corner, then enter the username and password of your Google account.

АА	🔒 goo	gle.com	Ċ
	IMAGES	:	Sign in
	Go	ogle	
			9
•	<b>?</b>	Þ	Ψſ
Weather	Sports	What to watch	Restaurants

 If the 2-step Verification of your Google account is turned on, then you will be asked to use your Security Key, and make sure the Google Smart Lock app is installed. Click on Install if it's not installed. Then click on Already installed, and open it.



4. Click on More options, select Pair another Bluetooth security key.



Use your security key
Press the button on your security key to sign in to your account
More options
Pair another Bluetooth security key
Try another way
Cancel

 Click on Next, and press the fingerprint sensor of the FIDO2 Pro+ Fingerprint Key for at least 5 seconds to enter the Bluetooth pairing mode, make sure the blue light is steady on.

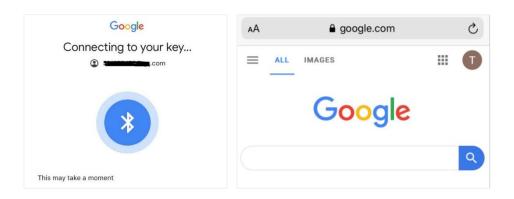
Google	Google
Ready to pair your registered	Get into pairing mode
security key?	Com
Com Street and Street Com	
Pair your key to this iPhone so you can use it to sign in to your account	Press the button on your security key for at least 5 seconds
Try another way Next	

6. When the phone detects the signal of the key, the serial number printed on the back of the key will show on the page. Select the serial number, click on **Next** and enter the 6digit PIN as printed on the back of the FIDO2 Pro+ Fingerprint Key for pairing.

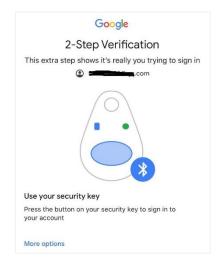
Google Select your security key (a) commencement Find the 6-letter name printed on the back of your key FD299999807 Don't see your key?	Google Find the 6-digit PIN (*)
	On the back of your security key, find the 6-digit PIN. Tap Next when you're ready to enter the PIN.



7. The indicator light of the key shall flash blue and the Google service will automatically verify your security key. When the FIDO2 Pro+ Fingerprint Key receives an authentication request, the indicator light changes to flashing red from flashing blue, short press the fingerprint sensor to confirm the authentication, then you will be back to Safari automatically with your Google account logged in.



8. When you are asked to do the 2-Step Verification on a paired iPhone again, go through the Step 1~3 above, after you open the Smart Lock app, short press the button on the FIDO2 Pro+ Fingerprint Key to enter the Bluetooth mode, and the indicator light shall flash blue. When the key receives an authentication request, the indicator light changes to flashing red from flashing blue, short press the fingerprint sensor again to confirm the authentication, then you will be back to Safari automatically with your Google account logged in.



#### 7.6. Sign in (NFC Mode + iOS 13.3 and Above)

Only iOS 13.3 and above supports FIDO security key over NFC connection. Here we take GitHub as an example.

1. Log into your GitHub account on your PC, go to Settings -> Security, enable Two-factor

authentication, and register your FIDO2 Pro+ Fingerprint Key.

Security	New password
Security log	
Emails	Confirm new password
Notifications	
Billing	Make sure it's at least 15 characters OR at least 8 characters including a number and a lowercase letter. Learn more.
SSH and GPG keys	Update password I forgot my password
Blocked users	
Repositories	Two-factor authentication
Organizations	Two-factor authentication adds an additional layer of security to your account by requiring more than just a password
Saved replies	to log in. Learn more.
Applications	Two-factor methods
Developer settings	
bereioper bettingb	Authenticator app Configured Edit
	Security keys ① 1 security key Edit
	Security keys ③ 1 security key Ec

2. Turn on NFC on your iPhone, open Safari, and go to <u>https://www.github.com</u>, sign in with

the username and password, then press Use security key.

0	Q
Sign in to GitHub	Two-factor authentication
Username or email address Password Forgot password?	Security key When you are ready to authenticate, press the button below.
Sign in	Use security key
New to GitHub? Create an account.	<ul> <li>Don't have your security key?</li> <li>Enter a two-factor code from your phone</li> <li>Enter a recovery code</li> </ul>

3. Hold your registered FIDO2 Pro+ Fingerprint Key near the top of your iPhone. The authentication will complete in a while, and you will be authorized to login automatically.



$(\mathbf{c})$	Ģ
Two-factor authentication	Two-factor authentication
0	0
Security key	Security key
When you are ready to authenticate,	When you are ready to authenticate,
"github.com" would like to sign in using a security key.	press the button below.
nsert your security key or bring the key	Use security key
near the top of your iPhone. Then, activate the key.	Success!
Cancel	Don't have your security key?
Enter a two-factor code from your phone	Enter a two-factor code from your phone
Enter a recovery code	Enter a recovery code

## 8. FAQ

# 8.1. I have two gmail accounts, how many FIDO2 Pro+ Fingerprint Keys do I need to protect two gmail account. Do I need 2 keys?

**Answer**: You can use one FIDO2 Pro+ Fingerprint Key with multiple accounts, but that is not recommended. Regardless of if you're protecting one gmail account, or two - you should register multiple keys (if the service allows it). That way, if you lose your key, or it's damaged, or it's stolen, you will still have a backup key ready to use.

#### 8.2. What should I do if I lost my FIDO2 Pro+ Fingerprint Key?

**Answer**: Just go to the website your key already registered. On the 2-step verification tab or similar tab, delete the device. Two FIDO2 Pro+ Fingerprint Key s are recommended, one for normal use, the other for backup.

## 8.3. Can I use my FIDO2 Pro+ Fingerprint Key on PC over Bluetooth?

Answer: Yes, if your PC has Bluetooth connection and the web service you want to login

supports FIDO2 Pro+ Fingerprint key over Bluetooth connection. Currently Mac OS does not support FIDO security key over Bluetooth connection.

#### 8.4. What applications support FIDO2 Pro+ Fingerprint Key?

**Answer**: The applications support FIDO<sup>®</sup> U2F/FIDO2 include but not limited to: Google, Microsoft, Facebook, Dropbox, GitHub, Salesforce, Dashlane, etc.

# 8.5. Why does GitHub say "this browse doesn't support security key" on my iPhone?

Answer: Please make sure your iPhone is updated to iOS 13.3.

# 8.6. Can I register a FIDO2 Pro+ Fingerprint Key over my smart phone?

**Answer**: No. You can always authenticate the FIDO2 Pro+ Fingerprint Key with your mobile devices, but registration can only be done from a non-mobile device.

#### 8.7. How can I know when to charge my FIDO2 Pro+

#### **Fingerprint Key?**

**Answer**: When a red indicator blinks every 5 seconds a time, the FIDO2 Pro+ Fingerprint Key is in low power state. Charging process starts automatically when FIDO2 Pro+ Fingerprint Key is plugged in the USB port of the PC.

# 9. Product Specs

Product	eSecu FIDO2 Pro+ Fingerprint Key (FD213)
System	Windows, macOS, Linux
Browser	Edge, Chrome, Firefox, Opera, Safari
Functions	FIDO U2F, FIDO2, HOTP, TOTP



Algorithm	SHA256, AES, HMAC, ECDH, ECDSA
Size	65.2 x 19 x 12.2 (mm)
Interface	USB-A, NFC, BLE
Data Retention	≥10 years
Rewrite Cycle	≥100,000 times
Operating Voltage	5V±10%
Operating Current	Max <40mA
FP Sensor Resolution	508dpi
Verification Time	<1s
False Accept Rate	< 0.001%
False Reject Rate	< 1%
Storage	30 fingerprints
Operating Temperature	-10°C~60°C
Storage Temperature	-20°C~60°C
Indicator Light	3 LED (Red, Green, Blue)
Material	AL, PC
Certificate	CE, FCC, RoHS, WEEE, FIDO2 L1