# **ATKey.card User Guide**

#### **REVISION: 1.2**



# 

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Preface
 ATKey.card
 IED#2 (RGB Tri-color)
 LED#1 (Blue)
 Power button
 Fingerprint sensor
 S/N (Keycode), 8-didits
 Mifare ID, 8-digits

#### USB Connector (back side)



- Before Start (Enroll Fingerprint, Battery and LED)
  - <u>1<sup>st</sup> MUST item- Enroll your fingerprint into ATKey.card</u>, then it can work for below functionalities.
    - Enroll through Windows app
    - Enroll through Mac app
    - Enroll through Mobile app (we wil Fingerprint sensor
  - Battery
    - There is a 90mAh Li-on re-chargeable battery (through USB port)
    - Please do battery charge at your 1<sup>st</sup> time usage
      - o Insert card into USB port (PC or USB adapter) to start battery charging
      - It will turn LED#1 ON (Blue) power on the card
        - If you can't see the LED#1 is ON, please wait for a while because the Li-On battery protected by PCM, if the battery is low and never charge for a long time, it needs resume time to start the battery charging – so, please wait for minutes, LED will tune on to start battery charging
      - During the charging, LED#2 shows RED flashing; if the LED#2 RED is off, it means full charged.
        - If the card inserts to PC USB port it's USB mode, BLE is off
        - If the card inserts to USB power adapter it's battery charging mode, BLE is still ON
    - If you find the LED#2 shows slow RED flashing, it means the card is in batterylow state, please do battery charge immediately.
  - LEDs

STATE	LED#1 (Blue)	LED#2 (tri-color, RGB)
Power ON/OFF	• Blue flashing, then ON	
Waiting for fingerprint (touch)	• Blue flashing	<ul> <li>"Any Touch fingerprint" to confirm the pairing from host (White ON)</li> <li>Fingerprint matching success (Green ON a second) or Fail (RED ON a second)</li> <li>NFC ON (Green ON for 15 sec)</li> </ul>
Bluetooth/BLE		<ul> <li>LED#2: Bluetooth broadcasting (blue flashing)</li> <li>LED#2: BLE Connected (Blue ON)</li> </ul>
Battery		<ul> <li>Low battery (slow RED flashing)</li> <li>Battery charging (RED flashing)</li> </ul>

#### Functionalities

	Windows	Mac OS X	iOS	Android
USB	<u>Windows Hello</u>	Fido U2F		
HID	• Fido U2F (Chrome	(Chrome		
	<u>browser)</u>	<u>browser)</u>		
	• Fido2 (Windows RS5,	• <u>Fido2</u>		
	edge/Chrome/Firefox)	(Chrome/Firefox)		
BLE	Windows Hello (Windows	Mac Logon	Fido U2F	
	<u>10)</u>	(Password	(Chrome	
		<u>replacement)</u>	browser, "Smart	
			Lock" app)	
NFC				Fido U2F
				<u>(Chrome</u>
				<u>browser,</u>
				<u>NFC)</u>

#### • Main Functionalities:

- <u>ATKey.card for Windows Windows Hello</u>
- <u>ATKey.card for Mac Mac login</u>
- ATKey.card for FIDO U2F
- <u>ATKey.card for FIDO2</u>
- ATKey.card for NFC reader (Mifare Type A Door locker)
- Extra Highlights and Troubleshooting

Connect to <u>https://www.authentrend.com/atkey-card/</u> for more information.

Visit <u>https://fidoalliance.org/</u> for more FIDO information.

or mail to <u>contact@authentrend.com</u> to contact.

# 1. Enroll fingerprint into ATKey.card

#### i) Enroll from Windows 10 (USB or BLE)

- This will also do "Companion" with Windows via CDF (Companion Device Framework) for Windows Hello
- Download app from Microsoft Store
  - Search by keyword (ATKey) or download from https://www.microsoft.com/store/productId/9P7GR8W9SJD3

ATKey f AutenTrend Tech This product is inst Launch	or Windows ology Inc. alled. In to Start			General 單選級
Description		Available on		
ATKey.BLE is a new fingerprint enabled auther Hello and FIDO U2F via BLE (Bluetooth smart) Through this app (ATKey for Windows), you ca fingerprint in and also associate as a Compani	ticator to support both Windows instead of USB dongle. n pair the key, enroll your on device for Windows.	PC Hub		
Screenshots				
Market Mark     0.0       Market Mark     0.0       Market Market     0.0       Market Market     0.0       Command     0.0	Note         Note           C         0	Angle Andrea Martin Andrea Martin Andrea Martin Andrea Martin Andrea Martin Andrea	Man in Parlamente Maria Maria Maria Manana Maria Maria Manana Maria Manana Maria Manana Maria Manana Maria Mananana Mananana Mananana Mananana Mananana Mananana Mananana Mananana Manananana Manananana Manananana Mananananana Mananananananananananananananananananan	

• After installed, find "ATKey for Windows" icon



- Before setup ATKey.card, please Enable PIN code for Windows Hello
  - Windows Settings => Accounts => Sign-in Option => Setup PIN

← Settings	► - ···	×
ය Home	Sign-in options	
Find a setting	Require sign-in	
Accounts	If you've been away, when should Windows require you to sign in again?	
RE Your info		
Email & accounts	C Windows Hello	
🔍 Sign-in options	A fast and secure way to sign in to Windows, make payments, and connect to anns and services	
Access work or school	Learn more about Windows Hello.	
A₊ Family & other users	Fingerprint	
♂ Sync your settings	Add another Remove	
	PIN Change Remove I forgot my PIN	

• Launch "ATKey for Windows" app

Click "Add and Register ATKey"



 (Bluetooth mode) Pick and click the specific ATKey.card to connect: check the 8-digits S/N (Keycode) on card

	C				
Blu		ATKey.card-0180006C	-48 dBm	4F:76:60:6E:C1:6E	
	()	ATKey.Wallet	•• <b>•</b> 79 dBm	CD:AA:15:A8:5F:43	
		ATKey.BLE	-47 dBm	50:8C:B1:44:40:F0	

 (Bluetooth mode: 1/6) pair Windows and ATKey.card – "Allow" from app and also touch Fingerprint on card to confirm the pairing (LED#2 of card is WHITE flashing)

1/6	Pairing with	ATKey card	
Pair Device			>
Pair device?			
"ATKey.card-0180006C to allow this?	" would like to pa	ir to this Windows	device. Do you want
Allow		(	Cancel
		Cancel	



 (Bluetooth mode: 2/6) enter a name of the card – you can have your own name, or just keep the original unique name with S/N (Keycode)

 (Bluetooth mode: 3/6) Enroll your fingerprint into card – touch and lift by the specific finger base on same angel, but slightly moving fingerprint to enroll wide fingerprint area, it needs around 16 times enrollments.





#### • (Bluetooth mode: 4/6) Verify enrolled fingerprint

4/6 Verify enrolled Fingerprint	4/6 Verify enrolled Fingerprint
Please put your finger on ATKey to verify	Fingerprint Verify OK.
Next Cancel	Next Cancel

(Bluetooth mode: 5/6) Register Card as Windows 10 Companion device for Windows Hello



• Verify fingerprint on card, "Success", then verify PIN code on Windows

Windows Security Making sure it's you		×
۱ forgot my PIN		
н	Cancel	v
	Cancel	



- (Bluetooth mode: 6/6) enable "Dynamic Lock" please ignore this one now (un-check) since it seems Windows 10 may only enable this feature with Smart Phone.
- Now, your ATKey.card is ready there

ATKey for Windows	×
+ Add and Register ATKey	
Bluetooth On Now discoverable as "Z-Surface-OJ80IVQ"	
Registered ATKey	
ATKey.card-0180007F	fide 🔐 💷 🌒 🌍 🗙

- Ø You can add/delete fingerprints (max. is 10)
- You can check ATKey.card configurations (firmware version, Battery, Bluetooth information, rename the card)
- Xou can remove the card from Windows
- Now, your ATKey.card is ready with fingerprint and also companioned with this Windows
  - USB is also ready now, since it's HID device, no extra driver needs, just insert into USB port, Windows will detect and recognize ATKey.card as a HID device.

#### ii) Enroll from Mac (BLE)

- o This will also do "Companion" with Mac via Bluetooth as password replacement
- o Download app from: <u>https://authentrend.com/download/ATKeyForMac.zip</u>
  - Please make sure your app is v1.1.6 or later versions, or you can upgrade version from "Check for updates" from app
- Install app "ATKey for Mac"



• Please unlock "ATKeyforMac.app" from Security & Privacy



- App is working now, please enable Bluetooth of Mac also 0 \Lambda 📥 🔉 55% 🗯 Finder File Edit View Go Window Help 53% 🔲 \* -Click "Settings" to app 0 🚹 🜰 🔈 籠 🖇 🎅 About Settings Check for updates... Quit (Bluetooth mode) Click "Add and Register ATKey" • ATKey for Mac ۲ (**i**) + Add and Register ATKey Bluetooth On On Registered ATKey
  - (Bluetooth mode, 1/5) Click the specific ATKey.card by unique S/N (Keycode) on card to pair



• (Bluetooth mode, 2/5) Click the specific ATKey.card by unique S/N (Keycode) on card to pair and also have name for the card - default name is base on S/N (Keycode).

	2/5 Enter a name of the ATKey
1	ATKey.card-0180007F
	Cancel Next

• (Bluetooth mode, 3/5) Enroll your fingerprint into card – touch and lift by the specific finger base on same angel, but slightly moving fingerprint to enroll wide fingerprint area, it needs around 16 times enrollments till 100%

1/2 Enroll your Fingerprint	1/2 Enroll your Fingerprint
0%	32%
Please touch the fingerprint sensor	Great, touch the sensor again
Cancel Next	Cancel Next

• (Bluetooth mode: 4/5) Verify enrolled fingerprint

4/5 Verify Fingerprint
Waiting for verify fingerprint
Cancel

• (Bluetooth mode: 5/5) Register as a Companion Device (to unlock/lock Mac)



 Next to confirm your Mac login password – Same as app install, we need your password to authorize it; in addition, we will leverage this password at every login (when fingerprint verify passed!); so if you change your login password, please remember to change it inside app

5/5 Register as a Companion Device
Authorized by login password:
Cancel
Verify passed
Cancel Next
5/5 Register as a Companion Device
ATKey companioned with this Mac
Cancel Done

• Then, we will guide you to the setting as reminding – enable "Require password: immediately" from "Security & Privacy Settings"

ATKey for N	Security & Privacy Settings	(i)
+ Add a	A login password has been set for this user Change Password.      Require password immediately is after sleep or screen saver begins     Droke ansatzen who are init lock after sleep or screen saver begins     Droke automatic login	
Bluetooth		
on Registered	Allow apps downloaded from: App Store App Store and Identified developers	
a	Click the lock to make changes. Advanced. ()	ξO. ×
	Please set a login password and enable "Require password immediately after sleep or screen saver begins". Do you want to open Security & Privacy dialog? Cancel OK	

• Paired and Companioned ATKey to your Mac, and the ATKey listed in app

ATKey fo	or Mac					۲	(i
+ A0	dd and Register ATKey						
Bluetooth	1						
Register	red ATKey						
<b>*</b>	HuangiPhone_U2F	fido 🔐			ŝ	$(\mathbf{x})$	
	ATKey.card-0180007F	fido 🔐	LED	۲	())	$(\times)$	

- Buttons of the "ATKey for Mac":
  - "LED": click it, BLUE LED of the ATKey will enable, and flashing for 5 sec. this is helpful to identify the registered ATKeys if you have a lot of ATKeys there.
  - Fingerprint(s): add (up to 10), delete (delete all), Calibration (re-calibrate fingerprint sensor if you found FRR getting worse or slow response)
  - "Configure":
    - Key information
    - BLE information
    - Rename
    - <u>Re-Companion with Mac</u>: if you change Mac login password, please re-companion and type in new password here.
  - "Remove": Remove this ATKey from this Mac
- iii) Enroll from iOS (Later schedule)
- iv) Enroll from Android (Later schedule)

# 2. ATKey.card for Windows Hello

- Windows Hello (Windows 10, USB or BLE)
  - ATKey can work for multiple Windows if they were companioned; but one Windows can just allow one ATKey.
    - Please check here for the detail to companion ATKey and Windows
  - Windows Logon (Windows Hello)
    - Message on Windows logon screen



When this message comes (LED#1 of ATKey is **blue flashing**), you can logon via ATKey fingerprint matching;

If the message is not showing, you may need to hit "Space bar" sometimes to push Windows checks Companion Device to show.

 Via USB – when LED#1 is blue flashing, touch your enrolled fingerprint to verify (Success: LED#2 is Green) to login



- ATKey is doing battery charging at the same time:
  - LED#2 is RED flashing;
  - LED#2 is off at full charging;
- ATKey Bluetooth is off when it is in USB data mode.

 Via BLE – Press Power button of ATKey, it will ON with BLE broadcasting (LED#2 is blue flashing) to all paired devices to connect, ideally it will connect the near one

since it's base on RSSI; when the ATKey connected to the target Windows (LED#2 is blue ON), then LED#1 is blue flashing, touch your enrolled fingerprint to verify (*Success: LED#2 is Green*) to login



• ATKey will be off automatically if there is no "operations" or "interactions" for 60 seconds.

# 3. ATKey.card for Mac Login

- Companion ATKey.card and Mac
  - o <u>Check here for the detail to enroll fingerprint and also companion ATKey with Mac</u>
  - Only for warm boot (sleep, hibernate), we can't support login at cold boot (restart, shutdown)
- Via BLE Press Power button of ATKey, it will ON with BLE broadcasting (LED#2 is blue flashing) to all paired devices to connect, ideally it will connect the near one since it's base on RSSI; when the ATKey connected to the target Mac (LED#2 is blue ON), then LED#1 is blue flashing, touch your enrolled fingerprint to verify (*Success: LED#2 is Green*) to login



- If your Mac starts from "cold boot" and "Restart", it did not allow ATKey as authenticator to login
- *"ATKeyforMac app" must be alive*
- ATKey will be off automatically if there is no "operations" or "interactions" for 60 seconds.
- We did not support USB mode to login Mac yet.

## 4. ATKey.card for FIDO U2F

- Browser base but Chrome only One Card for Windows, Mac, iOS and Android
- Here are FIDO U2F ready services: fido

Google Gmail Coogle You Tube

6				
	GitHub	🛛 FastMail	S Dropbox	salesfor

Or you can search and find available FIDO U2F certified server here:

```
https://fidoalliance.org/certification/fido-certified-
products/?appSession=8YT7Z25V0DOH6M410QG26WI22N0F6D5MF9W19F58545OZWKJPBOH5XMB874A6596S8432G491
GGF12B5Y7PIAM6PKR09S5G9Z3Q9T0FLK91C5445079DO1NWZFP8714Q
```

- (USB) FIDO U2F from Windows (Windows 7/8/8.1/10) and Mac OS Chrome browser
  - Take Google as example:
    - Login your Google account
    - Enable 2FA from "Sign-in & Security"



#### • Turn 2-step Verification ON

Password & sign-in method	t l	
Your password protects your a of protection with 2-Step Verifi your phone for you to enter wh manages to steal your passwo account.	ccount. You can also add a second layer cation, which sends a single-use code to en you sign in. So even if somebody rd, it is not enough to get into your	
Note: To change these setting:	s, you will need to confirm your password.	
Password	Last changed: September 29, 2013	>
2-Step Verification	Off	>

• Following Google steps

- login again by ID/Password
- Add your mobile phone in and select "Text message"

Let's set up your phone	
What phone number do you want to use?	
* +	
Google will only use this number for account security.	
Don't use a Google Voice number.	
Message and data rates may apply.	
How do you want to get codes?	
Text message     O     Phone call	
USE PROMPT INSTEAD	SEND

• Type-in received SMS code to confirm to turn on "2-step verification"

Turn on 2-Step Verification?
Second Voice or text message (default)
You'll stay signed in to ggmail.com on these devices: s
You'll be signed out of your other devices. To sign back in, you'll need your password and second step.
TURN ON

• Page down to find "Security Key" and "ADD SECURITY KEY"



• Prepare the ATKey – insert ATKey.card to USB port, click "NEXT" to register the key



• Register ATKey here



LED#1 of ATKey.card is flashing, touch by your registered finger, when Green LED is ON, it means fingerprint verified and register this ATKey to Google U2F server; if Red LED is on, it means fingerprint failed, wait and verify again

• Register ATKey done, type-in the name of the key (you can use the name of your ATKey, or any Nick name you can remember which key is)

•



• Then you can see the registered ATKey shows there:

2-Step Ve	erification	
2-Step Ve	rification is ON since Feb 6, 2018	TURN OFF
Your secon	d step y your password, you'll be asked for a second verification step. Learn more	
•	Security Key (Default) ⑦ ATKey9b (Added: Just now) Last used: Chrome on Windows in E ADD SECURITY KEY	1
	Voice or text message Verified Verification codes are sent by text message.	1

• You can re-login the google account, ID/Password first, then it will request 2<sup>nd</sup> factor – LED#1 is blue flashing, touch to verify your fingerprint to login



• For other U2F enabled service:

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- Dropbox: <u>https://www.dropbox.com/help/security/enable-two-step-verification</u>
  - Facebook: <a href="https://www.facebook.com/notes/facebook-security/security-key-for-safer-logins-with-a-touch/10154125089265766/">https://www.facebook.com/notes/facebook-security/security-key-for-safer-logins-with-a-touch/10154125089265766/</a>
- Github: <u>https://help.github.com/articles/configuring-two-factor-authentication-via-fido-u2f/</u>
- Salesforce: https://help.salesforce.com/articleView?id=security\_u2f\_enable.htm&type=5\_

- (Bluetooth) FIDO U2F via iPhone/iPad (iOS) app "Smart Lock" and Chrome browser
  - Smart Lock (download from app store)



Add your Google account in

	g	:48 PM	
$\equiv$			/
Goog	le		
Choose a	an account		
+	Add another acco	unt	
	0	10 014	-
		:48 PM	
≡		:48 PM	/
≡	ď	:48 PM	1
≡ G <mark>oo</mark> gl	e	:48 PM	1
≡ Googl	e 1 account	:48 PM	1
Googl Choose ar	e 1 account	-48 PM	1
Googl Choose ar	e n account	-48 PM	1
Googl Choose ar	e 1 account	-48 PM	1
E Googl Choose at	e n account Add another acco	unt	
E Googl Choose at	e n account Add another acco	unt art Lock" War	nts
E Googl Choose ar	e account Add another acco "Google Sm to Use "goog	unt art Lock" War gle.com" to Si	nts
E Googl Choose at	e account Add another acco "Google Sm to Use "goog	unt art Lock" War gle.com" to Si In	nts ign
E Googl Choose ar	e Add another acco "Google Sm to Use "goog This allows the share inform	unt art Lock" War Jle.com" to Si In app and website nation about you.	nts ign to
E Googl Choose ar	e account Add another acco "Google Sm to Use "goog This allows the share inform Capcel	unt art Lock" War gle.com" to Si In app and website nation about you.	nts ign to

Pair your Security Key (ATKey)



Pair ATKey.card and iPhone

٠

- ATKey.card: LED#2 is WHITE ON, touch fingerprint to confirm the pairing
- o iPhone: click "Pair" to continue
- when it's done, showing the google account in "Smart Lock" as below screenshots



- Chrome Browser login your google account by U2F
  - Login by ID/Password first, then need to power on ATKey.card ..., to verify fingerprint to login



- (NFC) FIDO U2F via Android phone/tablet Chrome browser
  - o Sign in Google account via Chrome browser
    - ID/Password first

J 🙆 🙆	* 🖘 🗖 🖬 🛙	94% 🗎 21:53
☆ ▲ //accou	nts.google.com	1:
	Google	
	Sign in	
with yo	ur Google Accou	nt
Email or phone		
Forgot email?		
Not your computer privately. Learn mo	? Use Guest mode t pre	to sign in
Create account		Next

Request Security Key and turn on NFC



Authenticate via ATKey through NFC



- Power on ATKey.card
- LED#1 is flashing, just touch fingerprint to verify to enable NFC (for 15 sec.)
- ATKey.card contacts Android Phone (back side) to send U2F token via NFC (JavaApplet) to Phone to server for authentication

# 5. ATKey.card for FIDO2

- Please check <a href="https://fidoalliance.org/fido2/">https://fidoalliance.org/fido2/</a> for more ideas about FIDO2
- ATKey.card is FIDO2 certified



- Browser base (WebAUTHN Edge, Chrome) for Windows and Mac via USB only
  - Windows 10 RS5, Edge browser must be v44.17738.1000.0 or later version
  - Chrome Canary browser v70.0.3528.0 or later version; and please follow below screenshot to enable flags.



- o FIDO2 server
  - Please check below certified FIDO2 server to try with ATKey.card (USB only) <u>https://fidoalliance.org/certification/fido-certified-</u> <u>products/?appSession=735HXT4BHP655B453PCZH40LZB8J07Y1PJH7C6Z5PNHR57GTRVEV4920WX3E8R</u> <u>YS335G6IU935S92W99707J73Q1KS1385CC6Y2AY15T5197JR1K5C212T703WTBY31Z</u>

# 6. ATKey.card for NFC Reader

- ATKey.card is a NFC tag type for ISO14443 & Mifare Type A NFC reader
  - o Mifare ID is resident and unique ID inside SE/NFC chip
  - o For NFC door locker
    - If there is a "Mifare ID table" in the backend of NFC card reader (Door NFC reader), just need to copy Mifare ID of those specific cards
    - Or register ATKey.card to Mifare Type A NFC door locker



# • Extra Highlights and Trouble Shooting

- Pending mechanism for security
  - Security level is high: Fingerprint FAR < 1/50000, FRR < 2%
  - For even higher security, we support "lock" mechanism to avoid trying by fake fingerprint continuously
    - Allow 5 times fingerprint verifications, if it fails 5 times continuously:
    - 1<sup>st</sup> time: lock card for 1 hour
    - 2<sup>nd</sup> time or later: lock card for 12 hours

#### • Battery

- From factory finish good, it is 3.8V (~50%)
- Battery low is 3.67V (~35%), please do battery charge
- If the battery is lower than 3.4V, ATKey.card can not boot
  - You need doing battery charge for a while (ATKey.card is no response at beginning), then ATKey.card can boot again
- If the battery is lower than 3.0V, battery protects by Hardware (PCM)
  - You need doing battery charge for a while (no response from ATKey.card for a while).
- Bluetooth
  - We are BLE mode (Bluetooth smart), it's low power consumption (comparing with Bluetooth mode)
  - ATKey.card is USB data mode (insert PC or ..), we will stop BLE mode; but if ATKey.card is USB battery charging (using USB power adapter), BLE is still ON.
- Demo Video
  - <u>https://youtu.be/zfGS9shUiMs</u> (Setup ATKey.card)
  - <u>https://youtu.be/3budV7ji250</u> (ATKey.card for NFC door, PC)
  - <u>https://youtu.be/MAomJowMuzc</u> (ATKey.card for Mac)
  - <u>https://youtu.be/fiAaX7PsNvk</u> (ATKey.card for FIDO U2F: PC)
  - https://youtu.be/IzewBCCXyvA (ATKey.card for FIDO U2F: Android)
  - <u>https://youtu.be/6SwYWws07IA</u> (ATKey.card for NFC door)

# • FCC and NCC statement

## FCC Label Compliance Statement:

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.

#### To assure continued FCC compliance:

Any changes or modifications not expressly approved by the grantee of this device could void the user's authority to operate the equipment.

#### **Exposure to Radio Frequency Radiation:**

This equipment complies with FCC radiation exposure limits set forth for an uncontrolled environment. This transmitter must not be colocated or operating in conjunction with any other antenna or transmitter.

### NCC警語:

本產品符合低功率電波輻射性電機管理辦法 第十二條、第十四條等條 文規定

 經型式認證合格之低功率射頻電機,非經許可,公司、商號或使用 者均不得擅自變更頻率、加大功率或變更原設計之特性及功能。
 低功率射頻電機之使用不得影響飛航安全及干擾合法通信;經發現 有干擾現象時,應立即停用,並改善至無干擾時方得繼續使用。
 前項合法通信,指依電信法規定作業之無線電通信。低功率射頻電機 須忍受合法通信或工業、科學及醫療用電波輻射性電機設備之干擾。