



Lenovo



Product Maintenance Manual

Lenovo Tab P12 Pro TB-Q706F/Z

Issued by: T&SD WW Service

Date of issue: 2023/12.20

Document version: 1.0.0

Read this guide carefully before repair

Disclaimer

INFORMATION CONTAINED IN THIS DOCUMENT IS STRICTLY PRIVATE, PROPRIETARY, CONFIDENTIAL AND PERSONAL TO RECIPIENT ("CONFIDENTIAL INFORMATION") AND SHOULD NOT BE COPIED, DISTRIBUTED OR REPRODUCED IN WHOLE OR IN PART, OR DISCLOSED IN ANY MANNER TO ANY THIRD PARTY WITHOUT THE PRIOR WRITTEN CONSENT OF LENOVO.

RECIPIENT OF THIS DOCUMENT SHALL (A) ONLY USE CONFIDENTIAL INFORMATION FOR REPAIRING LENOVO OR MOTOROLA PRODUCTS ("THE PURPOSE"); (B) ONLY SHARE CONFIDENTIAL INFORMATION WITH INDIVIDUALS WHO NEED TO KNOW AND WHO AGREE IN WRITING TO KEEP THE INFORMATION CONFIDENTIAL ON SUBSTANTIALLY THE SAME TERMS AS THOSE CONTAINED IN THIS DISCLAIMER; (C) PROTECT AND PREVENT UNAUTHORIZED USE OR DISCLOSURE OF CONFIDENTIAL INFORMATION WITH THE SAME DEGREE OF CARE RECIPIENT USES FOR RECIPIENT'S OWN SENSITIVE INFORMATION, AND NO LESS THAN REASONABLE CARE BASED ON THE TYPE OF CONFIDENTIAL INFORMATION; (D) FULLY COOPERATE WITH LENOVO TO INVESTIGATE ANY UNAUTHORIZED USE OR DISCLOSURE OF THE CONFIDENTIAL INFORMATION, INCLUDING PROVIDING A LIST OF INDIVIDUALS WHO HAD ACCESS TO THE CONFIDENTIAL INFORMATION; AND RETURN OR DESTROY THE CONFIDENTIAL INFORMATION UPON LENOVO'S WRITTEN REQUEST.

RECIPIENT HEREBY ACKNOWLEDGES THAT UNAUTHORIZED DISCLOSURE OR USE OF CONFIDENTIAL INFORMATION MAY CAUSE IRREPARABLE HARM AND SIGNIFICANT INJURY TO LENOVO, THE EXTENT OF WHICH MAY BE DIFFICULT TO ASCERTAIN AND FOR WHICH MONEY DAMAGES MAY NOT BE AN ADEQUATE REMEDY. ACCORDINGLY, LENOVO SHALL BE ENTITLED TO IMMEDIATE INJUNCTIVE RELIEF TO ENFORCE THE OBLIGATIONS OF RECIPIENT UNDER THIS DISCLAIMER, IN ADDITION TO ANY OTHER RIGHTS AND REMEDIES IT MAY HAVE AT LAW.

CONFIDENTIAL INFORMATION REMAINS THE PROPERTY OF LENOVO. EXCEPT FOR THE RIGHT TO ACCESS AND USE CONFIDENTIAL INFORMATION IN FURTHERANCE OF THE PURPOSE, NO LICENSE OR OTHER RIGHT TO CONFIDENTIAL INFORMATION OR TO LENOVO'S INTELLECTUAL PROPERTY IS GRANTED OR IMPLIED BY THIS DISCLAIMER.

ALL INFORMATION IN THIS DOCUMENT IS PROVIDED "AS IS" AND WITHOUT ANY WARRANTY WHATSOEVER, WHETHER EXPRESS, STATUTORY, OR IMPLIED, AS TO ITS ACCURACY, COMPLETENESS, OR PERFORMANCE.

BY ACCESSING THIS DOCUMENT, RECIPIENT ACKNOWLEDGES, ACCEPTS AND AGREES TO THE FOREGOING.

Revision History

Revision	Date	Notes
1	12/20/2023	Initial Release

Contents

Revision History	2
1. About this manual	5
2. Safety Information	6
2.1 General safety	7
2.2 Electrical safety	7
2.3 Safety inspection guide	9
2.4 Handling devices that are sensitive to electrostatic discharge	10
2.5 Grounding requirements	11
2.6 Safety notices multilingual translations	12
3. Product Introduction	13
3.1 Product Appearance	13
3.2 Product Location	14
3.3 Product Spec	15
3.4 Accessory	16
3.5 What's in the box	17
4. Warranty Information	18
4.1 How to find SN	18
4.2 Warranty lookup	19
5. Diagnostic	21
5.1 Web Trouble Shooting	21
5.2 Built in Hardware diagnostic	25
5.2 .1 Factory Reset	27
5.2 .1 Diagnostics	30
6. Rescue and Smart Assistant	31
7. Lenovo APP	103
8. Product Disassembly	104
8.1 Repair Tool	104
8.2 Common Repair Tips	105
8.3 Key Tips	106
8.4 Disassembly SOP	107
9. Part Replacement Repair	126

9.1 Explosive View	126
9.2 How to Order PN	Error! Bookmark not defined.
10. Accessories	127

1. About this manual

This **Product Maintenance Manual (PMM)** is a service handbook provides outlines and details on product service business operation from a service engineering perspective, which will be helpful to Lenovo service support functions globally as reference.

For content that are mentioned but not elaborated in this handbook will be highlighted where to find in sub files.

Important:

This manual includes technical instructions for replacing genuine parts in this product.

Read the entire manual before your repair.

Always use the latest version of this product service manual for repair.

Cautions and Warnings

Failure to follow the repair instructions or not to use genuine parts or proper tools may damage the device or compromise the device's functionality or water resistance.

The tablet components may be damaged by electrostatic discharge (ESD). Always use an ESD mat and ground strap when working with internal components.

Turn off the device before repair.

Loose screws, extra screws, or small parts inside the device can cause safety issue. Set aside all parts and screws removed during repair.

Marketing Name

Lenovo Tab P12 Pro

Model Name

TB-Q706F

TB-Q706Z

2. Safety Information

This chapter presents the following safety information that you need to get familiar with before you service a Lenovo product:

- **“General safety”**
- **“Electrical safety”**
- **“Safety inspection guide”**
- **“Handling devices that are sensitive to electrostatic discharge”**
- **“Grounding requirements”**
- **“Safety notices: multilingual translations”**

2.1 General safety

Follow these rules below to ensure general safety:

- Observe a good housekeeping in the area where the machines are put during and after the maintenance.
- When lifting any heavy object:
 1. Make sure that you can stand safely without slipping.
 2. Distribute the weight of the object equally between your feet.
 3. Use a slow lifting force. Never move suddenly or twist when you attempt to lift it.
 4. Lift it by standing or pushing up with your leg muscles; this action could avoid the strain from the muscles in your back. Do not attempt to lift any object that weighs more than 16 kg (35 lb) or that you think is too heavy for you.
- Do not perform any action that causes hazards to the customer, or that makes the machine unsafe.
- Before you start the machine, make sure that other service representatives and the customer are not in a hazardous position.
- Place removed covers and other parts in a safe place, keeping them away from all personnel, while you are servicing the machine.
- Keep your tool case away from walk areas so that other people will not trip it over.
- Do not wear loose clothing that can be trapped in the moving parts of the machine. Make sure that your sleeves are fastened or rolled up above your elbows. If your hair is long, fasten it.
- Insert the ends of your necktie or scarf inside clothing or fasten it with the nonconductive clip, about 8 centimeters (3 inches) from the end.
- Do not wear jewelry, chains, metal-frame eyeglasses, or metal fasteners for your clothing.

Attention: Metal objects are good electrical conductors.

- Wear safety glasses when you are hammering, drilling, soldering, cutting wire, attaching springs, using solvents, or working in any other conditions that may be hazardous to your eyes.
- After service, reinstall all safety shields, guards, labels, and ground wires. Replace any safety device that is worn or defective.
- Reinstall all covers correctly before returning the machine to the customer.
- Fan louvers on the machine help to prevent the overheating of internal components. Do not obstruct fan louvers or cover them with labels or stickers.

2.2 Electrical safety

Observe the following rules when working on electrical equipments.

Important:

Use only approved tools and test equipments. Some hand tools have handles covered with a soft material that does not insulate you when working with live electrical currents.

Many customers have rubber floor mats near their machines that contain small conductive fibers to decrease electrostatic discharges. Do not use such kind of mat to protect yourself from electrical shock.

- Find the room emergency power-off (EPO) switch for disconnecting the switch or electrical outlet. If an electrical accident occurs, you can then operate the switch or unplug the power cord quickly.
- Do not work alone under hazardous conditions or near the equipment that has hazardous voltages.
- Disconnect all power before:
 - Performing a mechanical inspection
 - Working near power supplies
 - Removing or installing main units
- Before you start to work on the machine, unplug the power cord. If you cannot unplug it, ask the customer to power-off the wall box that supplies power to the machine, and to lock the wall box in the off position.
- If you need to work on a machine that has exposed electrical circuits, observe the following precautions:
 - Ensure that another person, familiar with the power-off controls, is near you.

Attention: Another person must be there to switch off the power, if necessary.

— Use only one hand when working with powered-on electrical equipment; keep the other hand in your pocket or behind your back.

Attention: An electrical shock can occur only when there is a complete circuit. By observing the above rule, you may prevent a current from passing through your body.

— When using testers, set the controls correctly and use the approved probe leads and accessories for that tester.

— Stand on suitable rubber mats (obtained locally, if necessary) to insulate you from grounds such as metal floor strips and machine frames.

Observe the special safety precautions when you work with very high voltages; instructions for these precautions are in the safety sections of maintenance information. Be extremely careful when you measure the high voltages.

- Regularly inspect and maintain your electrical hand tools for safe operational condition.
- Do not use worn or broken tools and testers.
- Never assume that power has been disconnected from a circuit. First, check it to make sure that it has been powered off.

2.3 Safety inspection guide

The purpose of this inspection guide is to assist you in identifying potential unsafe conditions. As each machine was designed and built, required safety items were installed to protect users and service personnel from injury. This guide addresses only those items. You should use good judgment to identify potential safety hazards according to the attachment of non-Lenovo features or options not covered by this inspection guide.

If any unsafe conditions are present, you must determine how serious the apparent hazard could be and whether you can continue without first correcting the problem.

Consider these conditions and the safety hazards they present:

- Electrical hazards, especially primary power (primary voltage on the frame can cause serious or fatal electrical shock)
- Explosive hazards, such as a damaged CRT face or a bulging capacitor
- Mechanical hazards, such as loose or missing hardware

To determine whether there are any potential unsafe conditions, use the following checklist at the beginning of every service task. Begin the checks with the power off, and the power cord disconnected. Checklist:

1. Check exterior covers for damage (loose, broken, or sharp edges).
2. Turn off the product. Disconnect the power cord.
3. Check the power cord for:
 - a. A third-wire ground connector in good condition. Use a meter to measure third-wire ground continuity for 0.1 ohm or less between the external ground pin and the frame ground.
 - b. The power cord should be the type specified in the parts list.
 - c. Insulation must not be frayed or worn.
4. Check for cracked or bulging batteries.
5. Remove the cover.
6. Check for any obvious non-Lenovo alterations. Use good judgment as to the safety of any non-Lenovo alterations.
7. Check inside the unit for any obvious unsafe conditions, such as metal filings, contamination, water or other liquids, or signs of fire or smoke damage.
8. Check for worn, frayed, or pinched cables.
9. Check that the power-supply cover fasteners (screws or rivets) have not been removed or tampered with.

2.4 Handling devices that are sensitive to electrostatic discharge

Any computer part containing transistors or integrated circuits (ICs) should be considered sensitive to electrostatic discharge (ESD). ESD damage can occur when there is a difference in charge between objects. Protect against ESD damage by equalizing the charge so that the machine, the part, the work mat, and the person handling the part are all at the same charge.

Notes:

1. Use product-specific ESD procedures when they exceed the requirements noted here.
2. Make sure that the ESD protective devices you use have been certified (ISO 9000) as fully effective.

When handling ESD-sensitive parts:

- Keep the parts in protective packages until they are inserted into the product.
- Avoid contact with other people.
- Wear a grounded wrist strap against your skin to eliminate static on your body.
- Prevent the part from touching your clothing. Most clothing is insulative and retains a charge even when you are wearing a wrist strap.
- Use the black side of a grounded work mat to provide a static-free work surface. The mat is especially useful when handling ESD-sensitive devices.
- Select a grounding system, such as those listed below, to provide protection that meets the specific service requirement.

Notes:

The use of a grounding system to guard against ESD damage is desirable but not necessary.

- Attach the ESD ground clip to any frame ground, ground braid, or green wire ground.
- When working on a double-insulated or battery-operated system, use an ESD common ground or reference point. You can use coax or connector outside shells on these systems.
- Use the round ground prong of the ac plug on ac-operated computers.

2.5 Grounding requirements

Electrical grounding of the computer is required for operator safety and correct system function. Proper grounding of the electrical outlet can be verified by a certified electrician.

2.6 Safety notices multilingual translations

The safety notices in this section are provided in English, French, German, Hebrew, Italian, Japanese, and Spanish.

Safety notice 1

Before the computer is powered on after FRU replacement, make sure all screws, springs, and other small parts are in place and are not left loose inside the computer. Verify this by shaking the computer and listening for rattling sounds. Metallic parts or metal flakes can cause electrical shorts.

Avant de remettre l'ordinateur sous tension après remplacement d'une unité en clientèle, vérifiez que tous les ressorts, vis et autres pièces sont bien en place et bien fixées. Pour ce faire, secouez l'unité et assurez-vous qu'aucun bruit suspect ne se produit. Des pièces métalliques ou des copeaux de métal pourraient causer un court-circuit.

Bevor nach einem FRU-Austausch der Computer wieder angeschlossen wird, muß sichergestellt werden, daß keine Schrauben, Federn oder andere Kleinteile fehlen oder im Gehäuse vergessen wurden. Der Computer muß geschüttelt und auf Klappergeräusche geprüft werden. Metallteile oder Splinter können Kurzschlüsse erzeugen.

סוללות המתנה מסוימות מכילות כמות קטנה של ניקל וקדמיום. אין לפרק סוללת המתנה, לטעון אותה מחדש, להשליך אותה לאש או למים או לקצר אותה. יש לסלק את הסוללה בנדרש על ידי התקנות והחוקים המקומיים. יש להשתמש רק בסוללה המופיעה ברשימת החלקים המתאימה. שימוש בסוללה לא מתאימה עלול לגרום להצתה או התפוצצות של הסוללה.

Prima di accendere l'elaboratore dopo che é stata effettuata la sostituzione di una FRU, accertarsi che tutte le viti, le molle e tutte le altre parti di piccole dimensioni siano nella corretta posizione e non siano sparse all'interno dell'elaboratore. Verificare ciò scuotendo l'elaboratore e prestando attenzione ad eventuali rumori; eventuali parti o pezzetti metallici possono provocare cortocircuiti pericolosi.

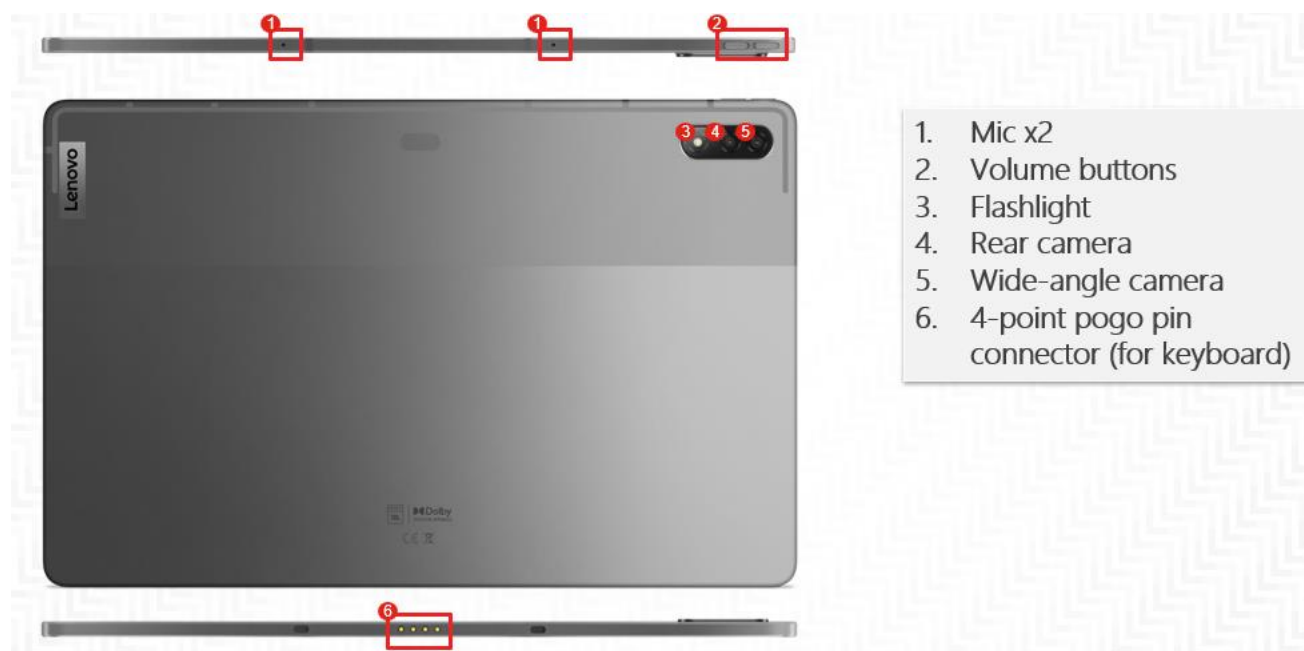
予備バッテリーの中には少量のニッケルとカドミウムが含まれているものがあります。したがって、予備バッテリーの分解、再充電、火または水の中への投棄、またはショートさせることは決して行わないでください。バッテリーを廃棄する場合は地方自治体の条例に従ってください。適切なパーツ・リストにあるバッテリーだけを使用してください。誤ったバッテリーを使用すると、バッテリーが発火したり爆発したりする可能性があります。

3. Product Introduction

3.1 Product Appearance

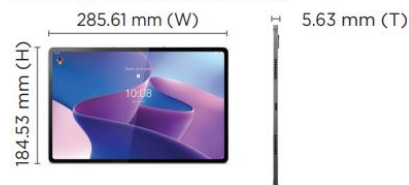


3.2 Product Location



3.3 Product Spec

Dimension (Tablet only)



Weight

~565 g (1.24 lbs)

Operating System

Android™ 11 or above¹

Color

Storm Grey

Display

Size	: 12.6"
Resolution	: 2560 x 1600 (16:10), HDR10+ and Dolby Vision® Supported
Screen	: AMOLED
Screen-to-Body Ratio	: 89%
PPI	: TBC
Color Gamut	: 107% NTSC
Color Depth	: 16.7 Million
Brightness	: Up to 600 nits (HBM)
Refresh Rate	: Up to 120 Hz ²

Sensors

Accelerometer (G) Sensor
Ambient L-Sensor
P-Sensor
E-Compass
Gyroscope
Hall Sensor
Vibrator

Integrated Camera

Rear	5MP Wide + 13MP Auto-Focus
Front	8MP Fixed-Focus + TOF Sensor

Login Security

Fingerprint : Yes (on the power button)
Face Unlock : Yes

Buttons and Ports

USB Type-C™ 3.1 (Gen 2)
Volume Button (up/down)
Power On/Off Button
4-point Pogo Pin for the Keyboard

Card Slots

Slots : Yes
Type : Nano SIM³ + microSD™ Card

PERFORMANCE

Processor

Qualcomm® Snapdragon™ 870 with Adreno™ 650 GPU
Octa-Core Processor with a Large-Core up to 3.2 GHz Clock Speed

Audio

Dolby Atmos® and Lenovo Premium Audio Design and Tuning

Speakers

Quad JBL® (SLS) Speakers with Quad-Channel

Microphones

Dual Microphones
Lower Power DSP for Mid-field Voice Recognition

Memory

RAM + ROM : (LPDDR5 + USF3.1)
8 GB + 256 GB; 6 GB + 128 GB
Card Slot : microSD™ Card Slot, Expandable up to 512 GB (FAT32) / 1 TB (exFAT)

Battery⁴ (for ROW SKU)

Type : Li-ion Polymer
Capacity : 10200 mAh (Typ.)
Video Playback : Up to 17 Hours (online)
Web Browsing : Up to 10 Hours
Quick Charge : 45W; supported with Qualcomm® QC 4.0 Solution (30W in-box charger)

CONNECTIVITY

Wireless Connectivity

WLAN	: WiFi 802.11 a/b/g/n/ac/ax, 2.4 GHz & 5 GHz, WiFi 6 Certified ⁵
Bluetooth®	: Bluetooth® 5.2
WiFi Direct	: Yes (Miracast)
GPS/Beidou	: Yes ³
A-GPS	: Yes ³
GLONASS	: Yes
NFC	: Yes for wireless charging and data transfer of the Lenovo Precision Pen 3

Bands Supported⁵

For ROW SKU
GSM : B2/B3/B5/B8
WCDMA : B1/B2/B5(B6/B19)/B8
FDD LTE : B1/B2/B3/B4/B5(B19)/B7/B8/B20/B26/B28(a+b)
TDD LTE : B34/B38/B39/B40/B41 full band
NR : n1/n3/n7/n8/n20/n28/n38/n41/n77/n78

Antenna
2 x 2 MIMO

SOFTWARE

- Instant Memo
- Contacts
- Gmail
- Chrome
- Recorder
- YouTube
- YouTube Music
- Google Photo
- Google Calendar
- Google Calculator
- Files
- Kids Space
- Entertainment Space
- Play Store
- Google Assistant
- Google Clock
- Duo
- Drive
- Google One
- Maps
- Amazon Prime Music
- Google Play Books
- Google Play Games
- Dolby Atmos®
- Dolby Vision®
- Microsoft Office
- Yandex (Russia)

TUV Certified Full Care Display

With special light and display technology development, Lenovo tablets ensure that the display lowers harmful blue light when appropriate to reduce strain on the eyes.



¹ Lenovo tablets typically receive at least 1 Android™ OS upgrade cycle. May vary per models, countries, regions, retailers and operators. Contact support for more details.
² Up to 360 Hz sampling rate. | ³ For 5G SKU.
⁴ All battery life claims are approximate. Actual battery performance will vary and depend on numerous factors including product configuration and usage, software, operating conditions, wireless functionality, power management settings, screen brightness and other factors. The maximum capacity of the battery will naturally decrease with time and usage.
⁵ WiFi is a trademark of WiFi Alliance®. | ⁶ 2G/3G/4G/5G Sub6.

3.4 Accessory

+ Accessories (Keyboard Pack)

PERFORMANCE

Battery

Up to 10 Hours usage on a full charge
One way charging from tablet via pogo pin

CONNECTIVITY

Connections

4-point pogo pin for data and charging transfer

Bluetooth*

Bluetooth® 5.1

How to connect via Bluetooth*

Long press on the Bluetooth® connection hotkey for a minimum of 5 seconds. Release the button when the blue LED light starts flickering. Wait for the Bluetooth® pairing until the flickering ends and the blue LED becomes stable. This will disappear 5 seconds upon a successful connection.

The Bluetooth®-connected keyboard will sleep after certain time of no contact. To wake the keyboard again, press any key.

DESIGN

Dimensions (W x D x H)**Keyboard**

(mm) : 285.61 x 184.53 x 5*
(inches) : 11.24" x 7.26" x 0.19"

Stand (without pouch area)

(mm) : 285.61 x 184.53 x 2.5
(inches) : 11.24" x 7.26" x 0.09"

Stand (with pouch area)

(mm) : 285.61 x 184.53 x 10.06
(inches) : 11.24" x 7.26" x 0.4"

Weight**Keyboard**

Starting at 290 g (0.64 lbs)

Stand

Starting at 150 g (0.33 lbs)

Color

Grey

LED Light for Bluetooth® Connection**Blue Color**

Flickering : Bluetooth® pairing in progress

Stable : Successful Bluetooth® connection

INFORMATION

Warranty

1 Year

What's in the Box

Keyboard

Back cover



Lenovo
31

+ Accessories (Lenovo Precision Pen 3)

PERFORMANCE

Pen Pressure Sensitivity

4096

Battery¹

Type : Li-ion

Capacity : 30 mAh

Battery Life : Up to 15 Hours

¹ Lenovo lab testing results. All battery life claims are approximate. Actual battery performance will vary and depend on numerous factors, including product configuration and usage, software, operating conditions, wireless functionality, power management settings, screen brightness and other factors. The maximum capacity of the battery will naturally decrease with time and usage.

² Configurable by SW.

DESIGN

Dimensions (Length x Diameter)

(mm) : 150 x 8.9
(inches) : 5.9" x 0.35"

Weight

Starting at 16 g (0.03 lbs)

Color

Storm Grey

Button

1 x Hardware Button²

CONNECTIVITY

Supported Protocols

MPP 2.0

Compatible Devices

Lenovo Tab P12 Pro

INFORMATION

Warranty

1 Year

What's in the Box

Lenovo Precision Pen 3

One Replaceable Pen Tip



Lenovo
29

3.5 What's in the box

WHAT'S IN THE BOX

- Lenovo Tab P12 Pro
- 10V/3A Charging Adapter
- 1 x USB Type-C™ to Type-C™ (1.5 m) Charging Cable
- 1 x USB Type-C™ to 3.5 mm Headphone Jack Adapter
- 1 x SIM Pin
- 1 x Quick-Start Guide & Safety, Warranty Card
- 1 x Lenovo Precision Pen 3*

* For special bundle SKU.

ACCESSORIES



Folio Case



Lenovo Precision Pen 3



Lenovo Keyboard Pack for P12 Pro



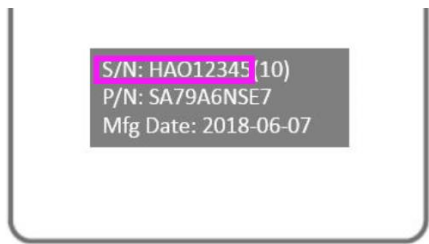
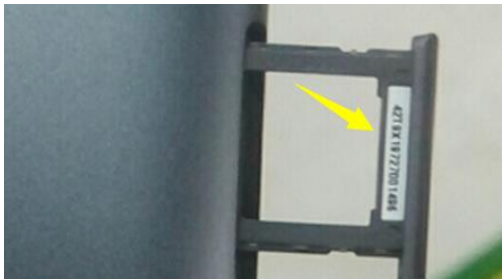
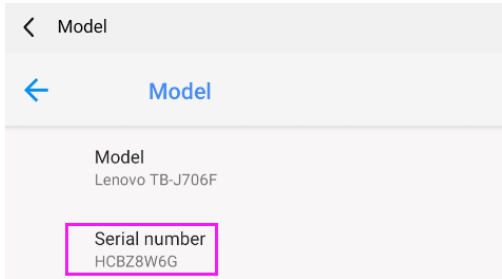
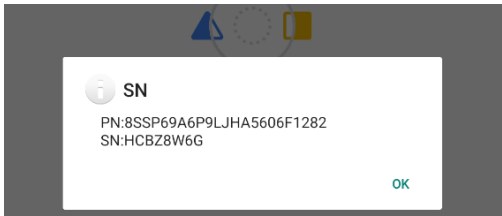
WWW.LENOVO.COM

4. Warranty Information

4.1 How to find SN

There are several ways to find you device ID, which determine by the serial number (SN) usually.

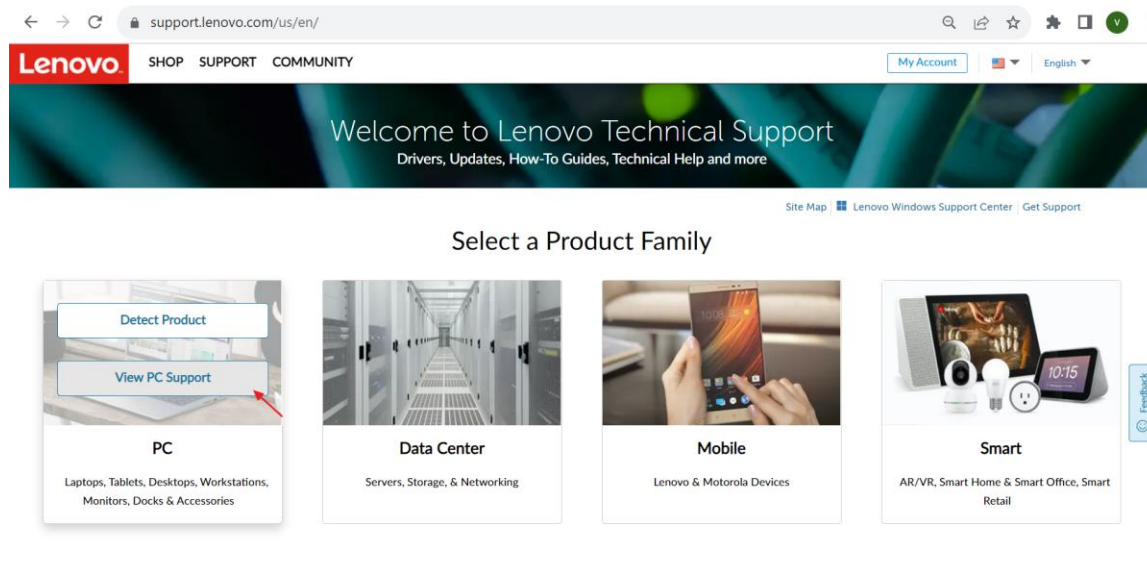
And the SN is important for product warranty identify. Lenovo T&SD product's SN is usually composed 34 based of 8-digit number.

Method for SN find	Demo
Method-1: Back of device product label	
Method-2: Find SN on SIM tray label	
Method-3: in Android OS PATH 1: [Settings /system /About tablet /Model /Serial number] PATH 2: [Settings /system /About tablet /Status /Serial number]	
Method-4: Input #####2222# in setting search bar to find PCBA SN (PN) and SN	

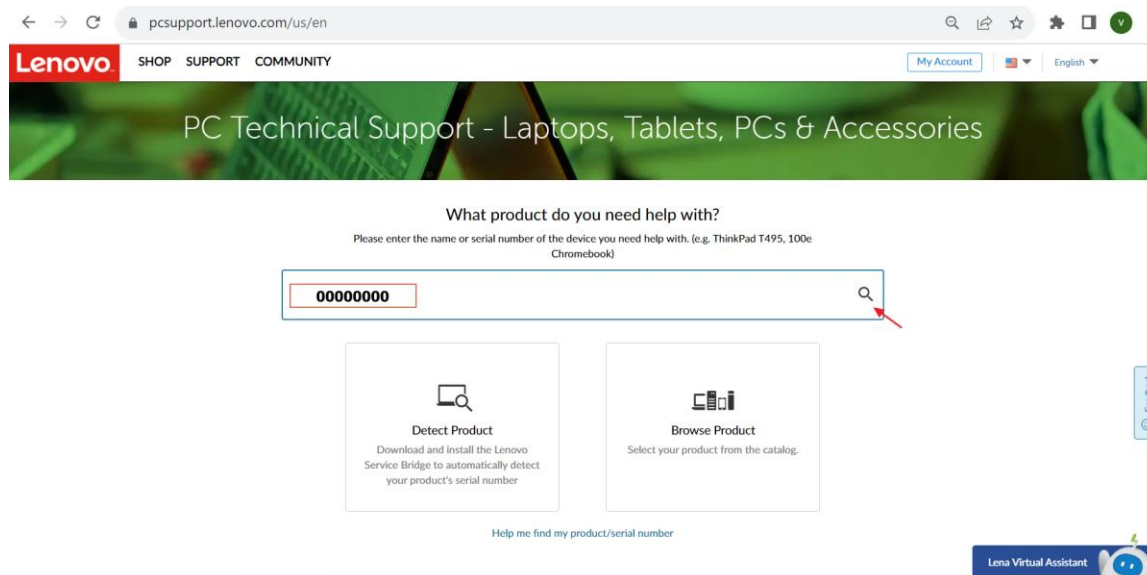
4.2 Warranty lookup

Go to <https://support.lenovo.com/us/en/>

Click **View PC Support**;



Input the SN then click search icon;



Then you can find the product's warranty information.

LenovoSHOPSUPPORTCOMMUNITY

QMy AccountEnglishCart

PC Support > Tablets > M Series tablets > Tab M7 Tablet (3rd Gen) (Lenovo TB-7306F, Lenovo TB-7306X) - Type ZA8D



Product Home

Product Info

Serial Number: **00000000**

Machine Type Model: ZA8D0063EG

Associated products

Machine Info: [Machine Info](#)

Warranty Status

In Warranty [View Details](#)

[Terms and Conditions](#)

Current Service & Support Status < 2 months remaining

Started Oct 2022 End Dec 2023

Quick Links

- User Guide
- Accessories
- Drivers & Software

[Detect Product](#) [Change Product](#)

[Product Home](#)

[Troubleshoot & Diagnose](#)

[How To's](#)

[Upgrade Warranty](#)

Good **Best**

Depot Support

Lenovo recommends upgrading your service level

[Compare Service Levels](#)

[Feedback](#)

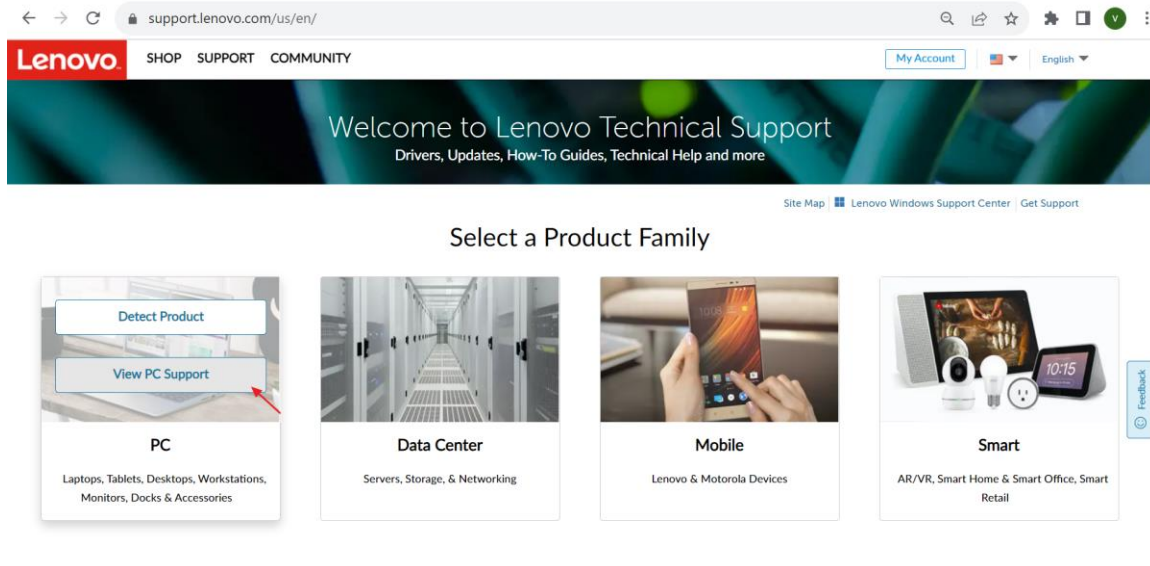
Lena Virtual Assistant

5. Diagnostic

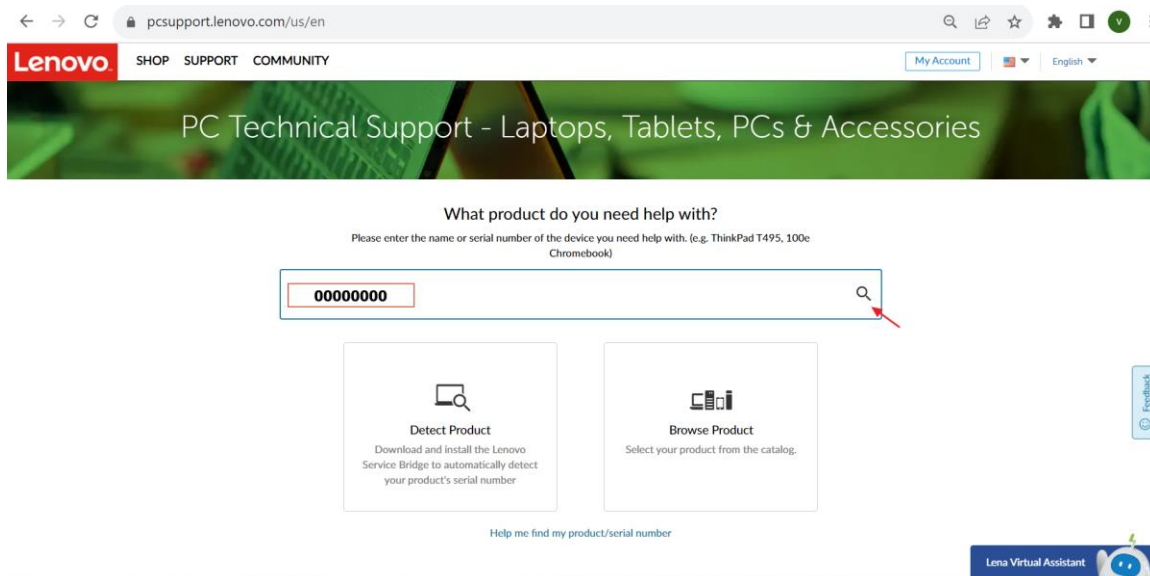
5.1 Web Trouble Shooting

1. Go to <https://support.lenovo.com/us/en/>

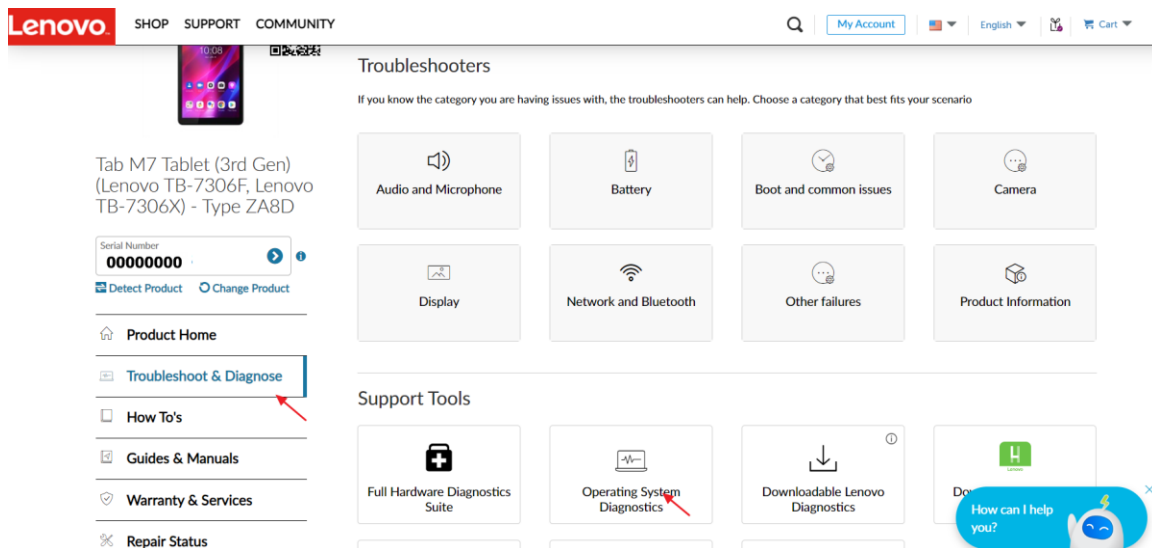
Then click **View PC Support**;



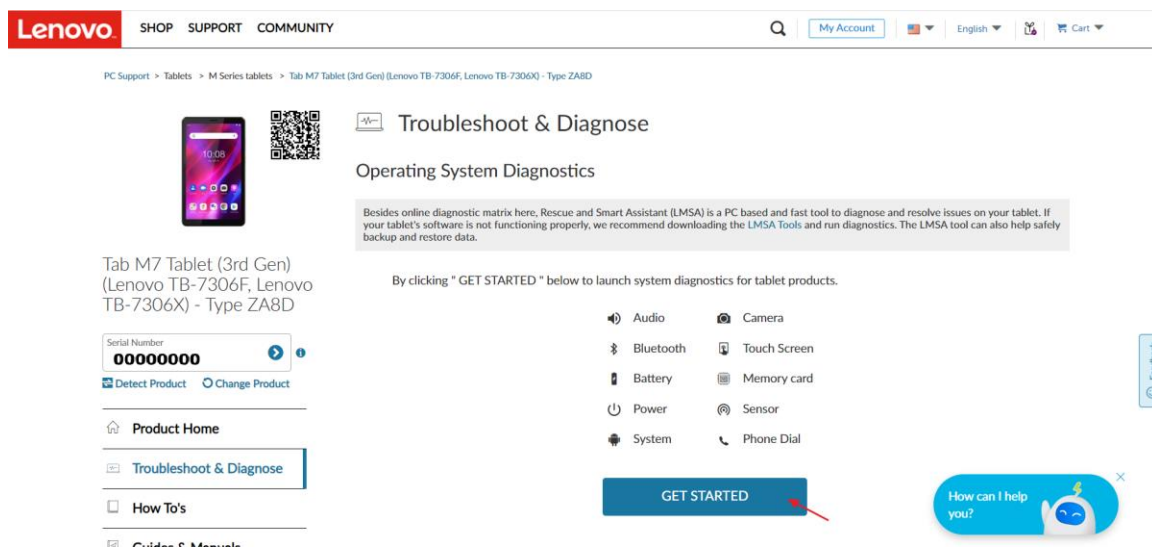
2. Input the SN then click search icon;



3. Click “Troubleshoot & Diagnose” at the left panel, then select the icon “Operating System Diagnostics”;



4. Follow the instruction, click the button “GET STARTED”;



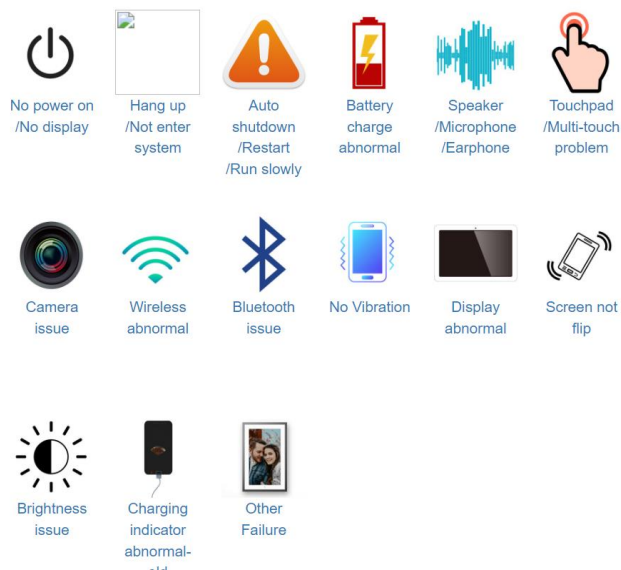
5. It will show the warranty information and then just click “Confirmed”;

System Summary			
Proof-of-Purchase : Product: IMEI:867442052052475	Product MTM:ZA800063EG Country:EG	Type:ZA8D Manufacture Date:2022-10-07	Serial Number:00000000 Status:SH
Base Warranty			
Start Date:2022-10-11 Origin:	End Date:2023-12-09	Warranty ID: 12C	Status:
Description:This product has a one year limited warranty and is entitled to parts, labor and carry-in repair service. In some countries, courier service will be provided. Many parts can also be delivered to you using the Customer Replacable Unit (CRU) method.			
Extend Warranty			
No extend warranty information.			

Back Confirmed

6. Click the failure you meet...

Select the failure you meet...



7. . Follow the instruction step by step strictly.

Reset

Battery Charging
Check

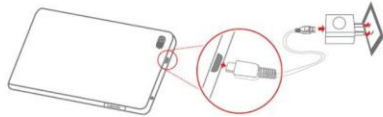
Recovery Page Enter

Wipe Cache

Keep the **power** button pressing no less than **20 seconds**, show as below



If necessary, please repeat it **several times** and check if the battery is charged? Try to connect tablet to the USB charger at the same time.



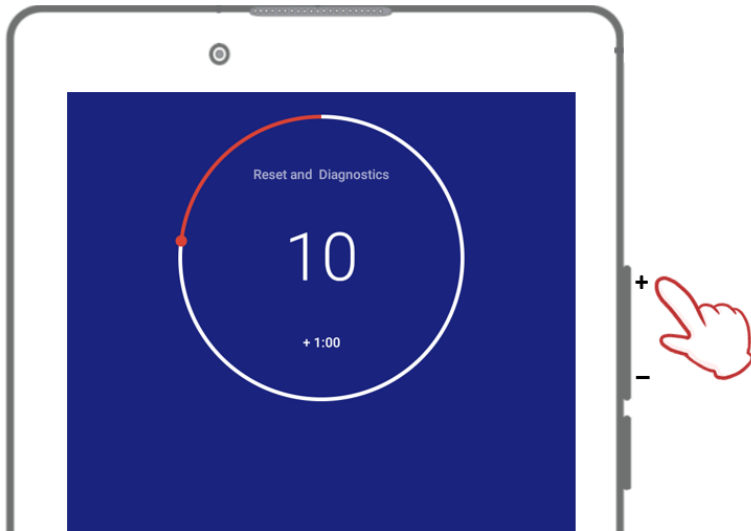
Issue Solved

Not yet,continue

5.2 Built in Hardware diagnostic

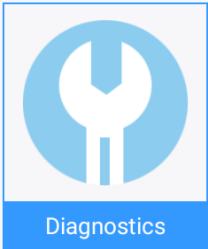
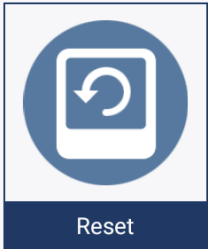
By the preload quick factory recovery and hardware self-diagnosis module, to realize device factory reset or function diagnostics quickly.

Step-1. Enter the system (unlocked account status) and keep pressing the **Volume up** key no less than **10 seconds**.



Step-2. The **Factory Reset and Hardware Diagnostics** Self-diagnosis page will appear.

Factory Reset and Hardware Diagnostics



v1.0.0

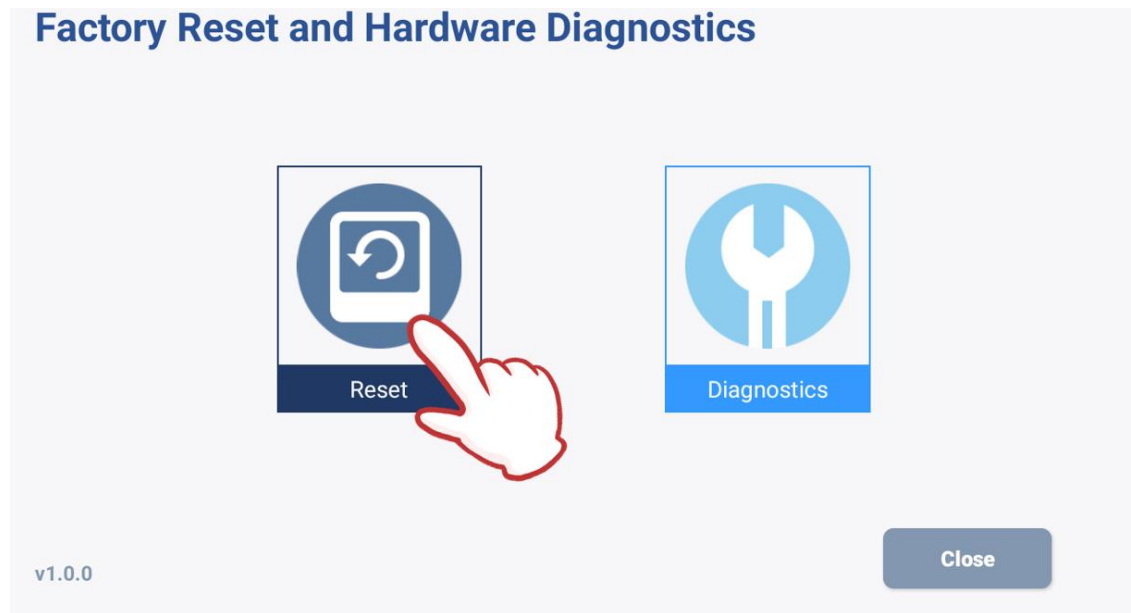
Close



5.2 .1 Factory Reset

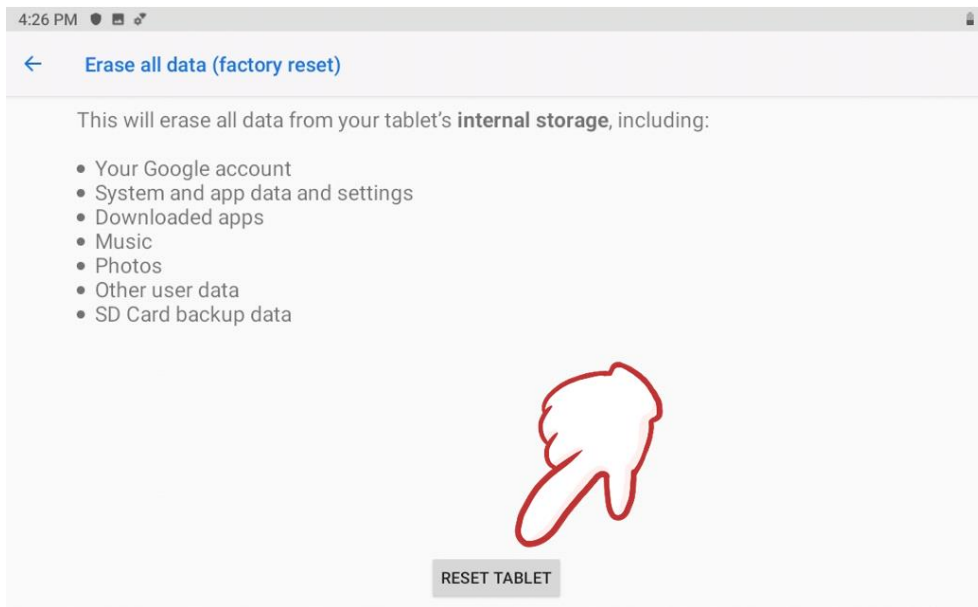
Step-1. In the **self-diagnostics** page, click the **Reset** icon as demoed below, and make sure the battery volume is **no less than 30%** or keep the external USB charger connecting.

When you choose to do this, it means that all personal data in tablet have be backup or no need anymore.

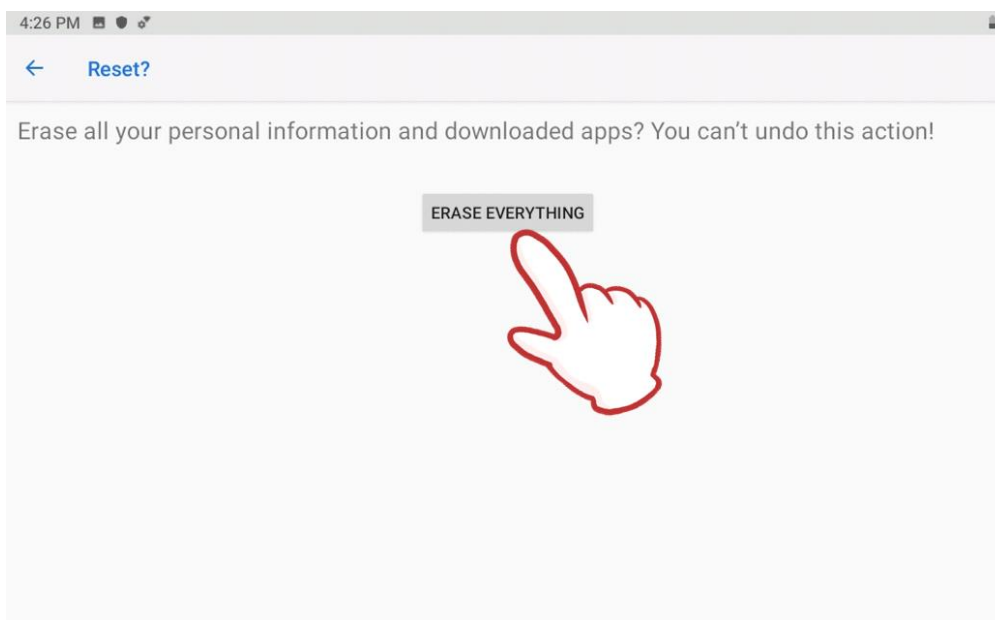


Step 2. The following data will be completely lost after system recovery...

- Your Google account
- System and app data and settings
- Download apps
- Music
- Photos
- Other user data
- Inner storage backup data



Step-3. To check to and perform this **ERASE EVERYTHING** operation step



Step 4. The system will restart automatically and wait about 2 minutes.

Hi there

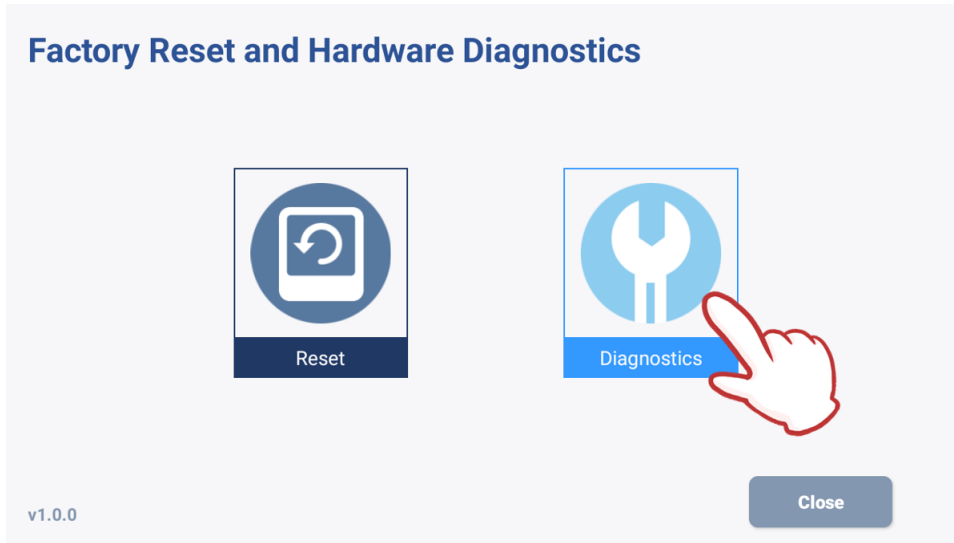
ENGLISH (UNITED STATES) ▾

START

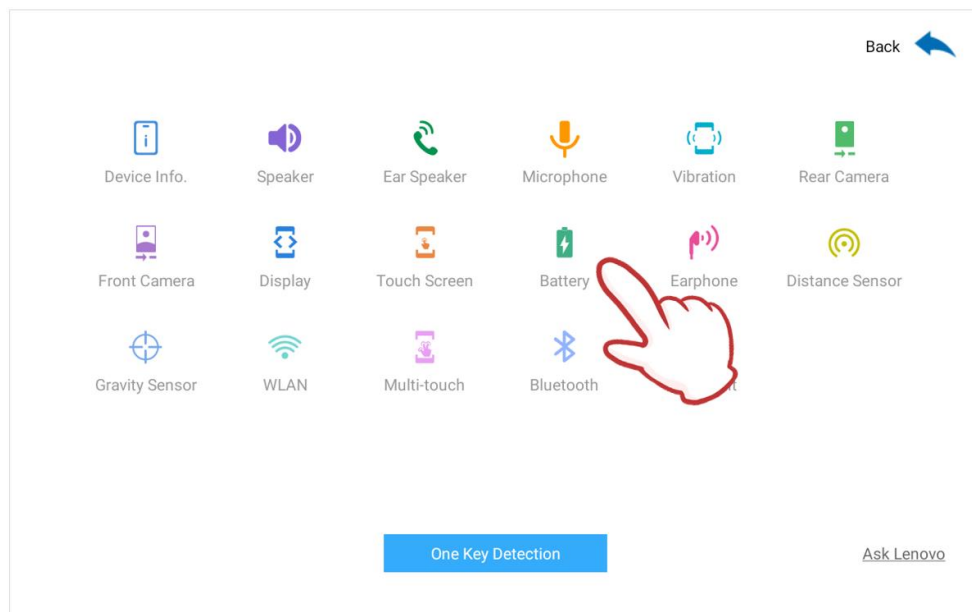
 Vision Settings

5.2 .1 Diagnostics

Step-1. In the **self-diagnostics** page, click the **Diagnostics** icon to start hardware diagnostics of the tablet.



Step-2. Click the function icon to start test. **OR** click on **One Key Detection** to do all tests with only one click.



6. Rescue and Smart Assistant

[Rescue and Smart Assistant](#) is a Windows PC (Windows 7, 10, 11) application, previously known as Lenovo Moto Smart Assistant, developed for: Motorola phones, Lenovo phones, Lenovo Tablets and selected Smart devices. It can help to:

- Diagnose and resolve issues
- Manage data
- Reinstall device software

Note: Not all features are available on all devices.

The following are Rescue and Smart Assistant resources:

- [Download Lenovo Rescue and Smart Assistant \(Installs on PC\)](#)
- [Rescue and Smart Assistant User Guide](#)
- [Rescue and Smart Assistant: Frequently Asked Question's \(FAQ's\)](#)

This document covers the following topics:

- [Connect your phone to PC via Rescue and Smart Assistant](#)
- [Update Rescue and Smart Assistant](#)
- [Rescue and Smart Assistant basic features introduction](#)
 - [Illustration for Rescue and Smart Assistant \(Lenovo Moto Smart Assistant\) Home](#)
 - [Start page](#)
 - [User](#)
 - [Setting](#)
 - [Notification](#)
 - [Download Center](#)
 - [Device](#)
 - [Home](#)
 - [Application management](#)
 - [Pictures management](#)
 - [Songs managment](#)

- [Videos management](#)
- [Contacts management](#)
- [File management](#)
- [Backup & restore](#)
- [Hardware Test](#)
- [Resuce](#)
 - [Fastboot Mode Rescue](#)
 - [USB Debugging Mode Rescue](#)
 - [Power-off Mode Rescue](#)
 - [Tablet or Smart Device Rescue](#)
- [Support](#)
 - [Tips](#)
 - [Forum](#)
 - [Moli](#)
 - [Lena](#)
 - [Warranty](#)
- [Toolbox](#)
 - [Clipboard](#)
 - [GIF Maker](#)
 - [Ringtone Maker](#)
 - [Screen Recorder](#)
- [Feedback](#)
- [Survey](#)
- [Mobile-client-end-Mobile Assistant interface illustration](#)
 - [Connect with USB](#)
 - [Connect with Wi-Fi](#)
 - [HW Detection](#)
 - [Device Info.](#)
 - [CPU Info.](#)
 - [ROM Clean](#)

Applicable Systems

- Motorola phone
- Lenovo phone
- Lenovo Tablet
- ThinkReality A6 AR Glasses
- ThinkSmart View for Teams
- ThinkSmart View for Zoom
- ThinkSmart View Plus - Microsoft Teams Display

Operating Systems

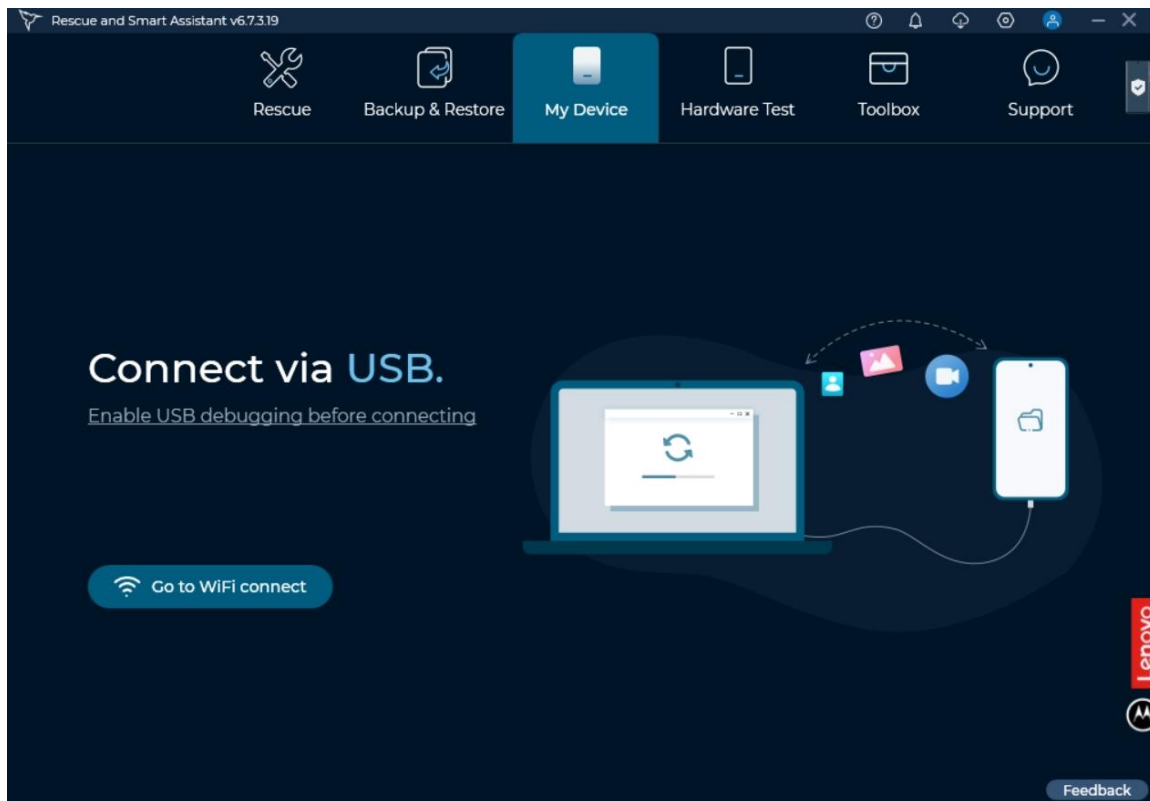
- Android
- Windows 10
- Windows 11

Solution

Connect your phone to PC via Rescue and Smart Assistant (Lenovo Moto Smart Assistant)

1. First download and install Rescue and Smart Assistant from [PC-end software](#) on your PC. And open it.
2. Ensure the device USB debugging mode is on.

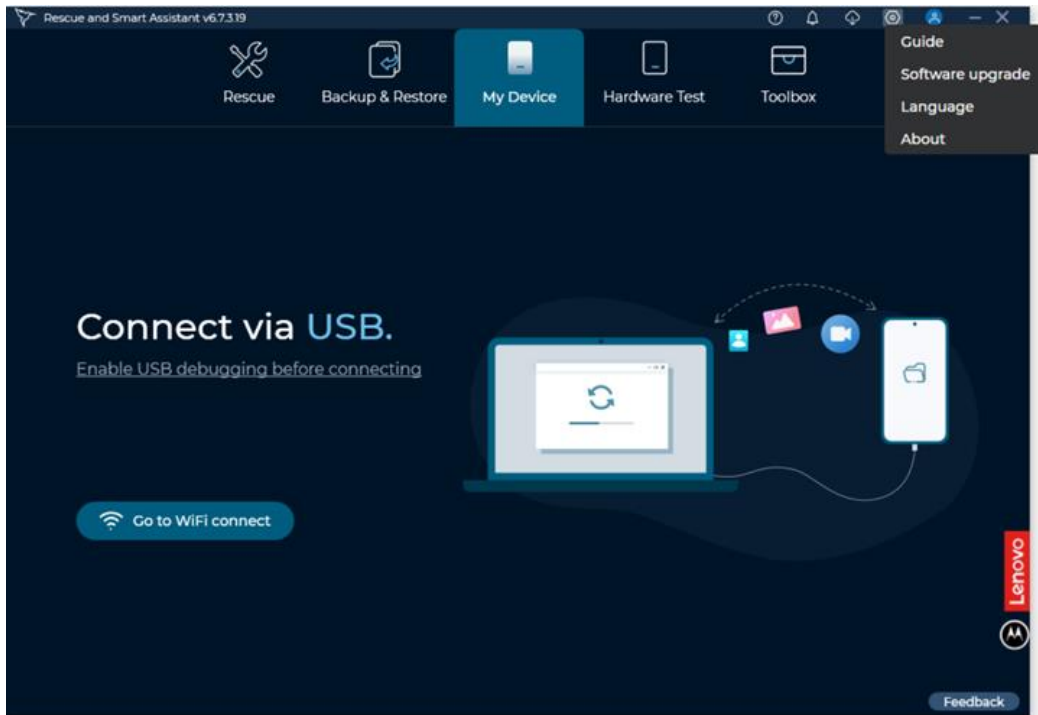
Connect your device to PC with USB cable or scan the QR code using mobile-client-end software called Mobile Assistant.



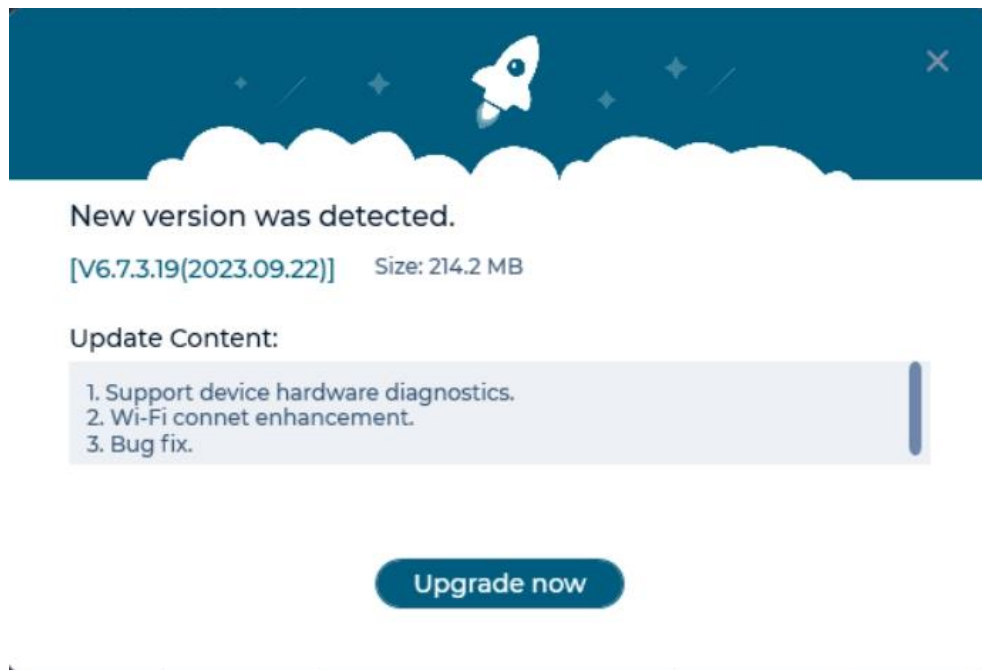
Note: Mobile-client-end software - Mobile Assistant will require to install when the device is connected to PC by USB cable if your PC has Rescue and Smart Assistant installed.

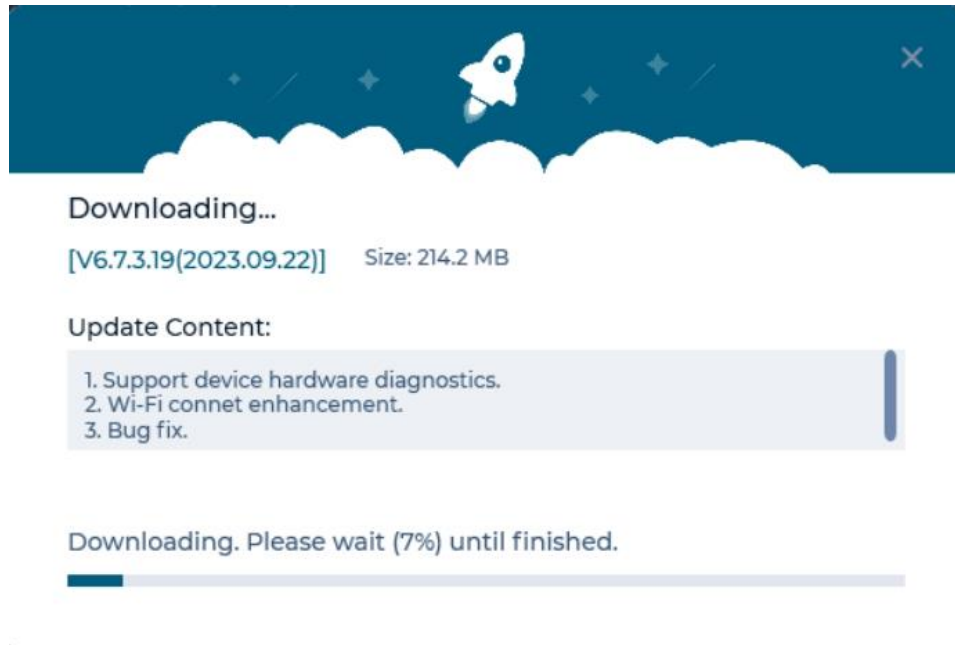
Update Rescue and Smart Assistant (Lenovo Moto Smart Assistant)

1. Open Rescue and Smart Assistant. Click setting icon at the top right and click **Software update**.

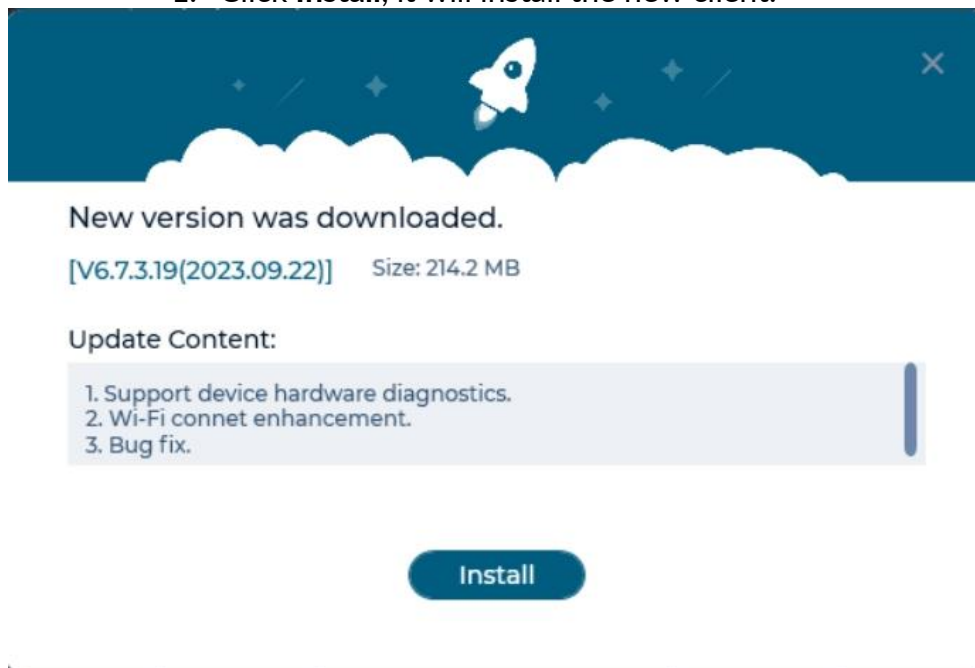


2. The new version available dialog box will appear. Click **Upgrade Now**, the new version will start downloading. Click **No, thanks** to cancel.





1. Click **Install**, it will install the new client.



Rescue and Smart Assistant (Lenovo Moto Smart Assistant) basic features introduction

Rescue and Smart Assistant (Lenovo Moto Smart Assistant) is a software tool which offers help to manage Lenovo and Moto mobile devices.

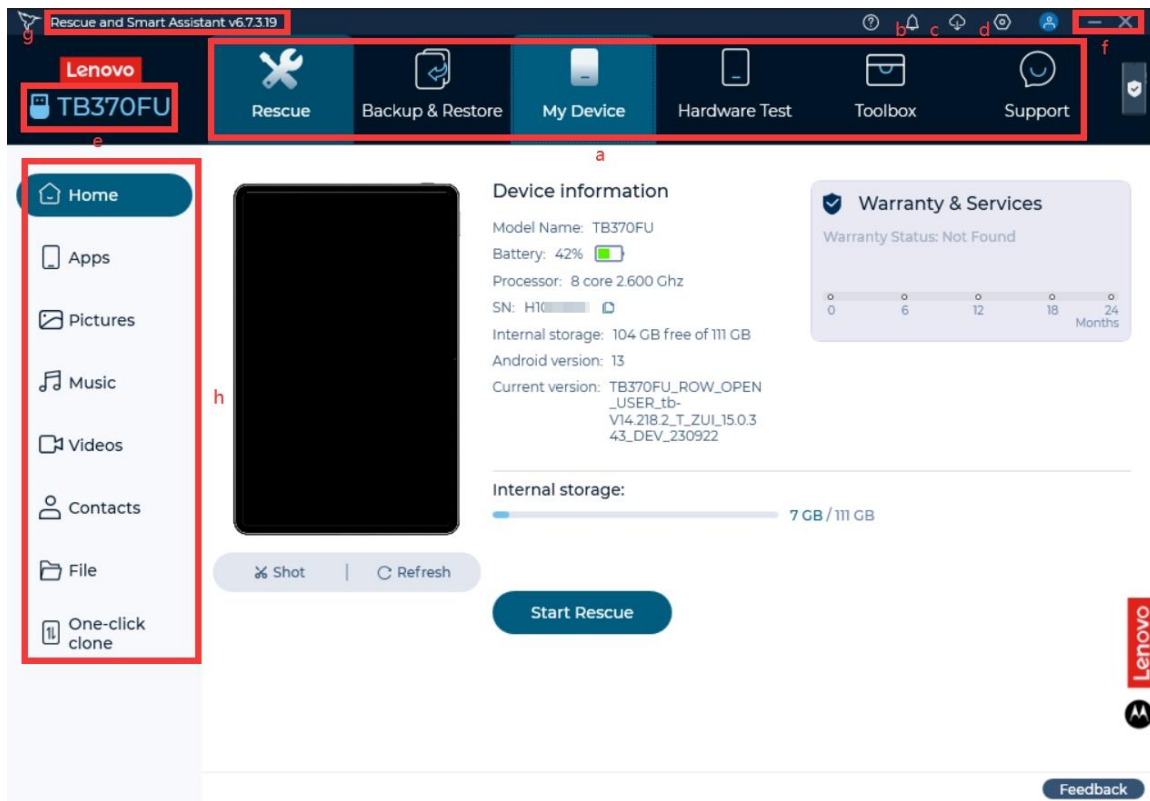
Its key functions include:

1. *Rescue*: Rescue device from software caused un-operational status.
2. *Backup&Restore*: backup the pictures, videos, musics, contacts of your tablets before Rescue, and restore them after rescue.
3. *My Device*: Connect device via USB cable or Wi-Fi, and then manage Pictures, Videos, Music, Contacts, Files Management, and clone the files of older devices to new device.
4. *Hardware* Quickly check if your device has any hardware concerns.
5. *Toolbox*: Support Clipboard, GIF Maker, Ringtone Maker, and Screen Capture.
6. *Support*: It contains Tips, Forum, Moli, Lena and Warranty. *Tips*: Online tips for devices, How-to, and Solutions; *Forum*: Submit your questions, and suggestion, discuss with other users; *Moli*: Get online support via chat (based on PC's region to display Chat plugin); *Lena*: Get online support of tablet (based on PC's region to display Chat plugin); *Warranty*: Check your device's warranty status.

Rescue and Smart Assistant (Lenovo Moto Smart Assistant) is composed of 2 parts:

1. PC client: Key platform for end user.
2. Android APP: assist PC client, named "Mobile Assistant", and pre-installed LTHD.

Illustration for Rescue and Smart Assistant (Lenovo Moto Smart Assistant) Home



1. Function ribbon
2. Notification
3. Download
4. Setting management (Software update, change language, and so on)
5. Account info(Registered devices)
6. Client control (minimize, exit)

Start page



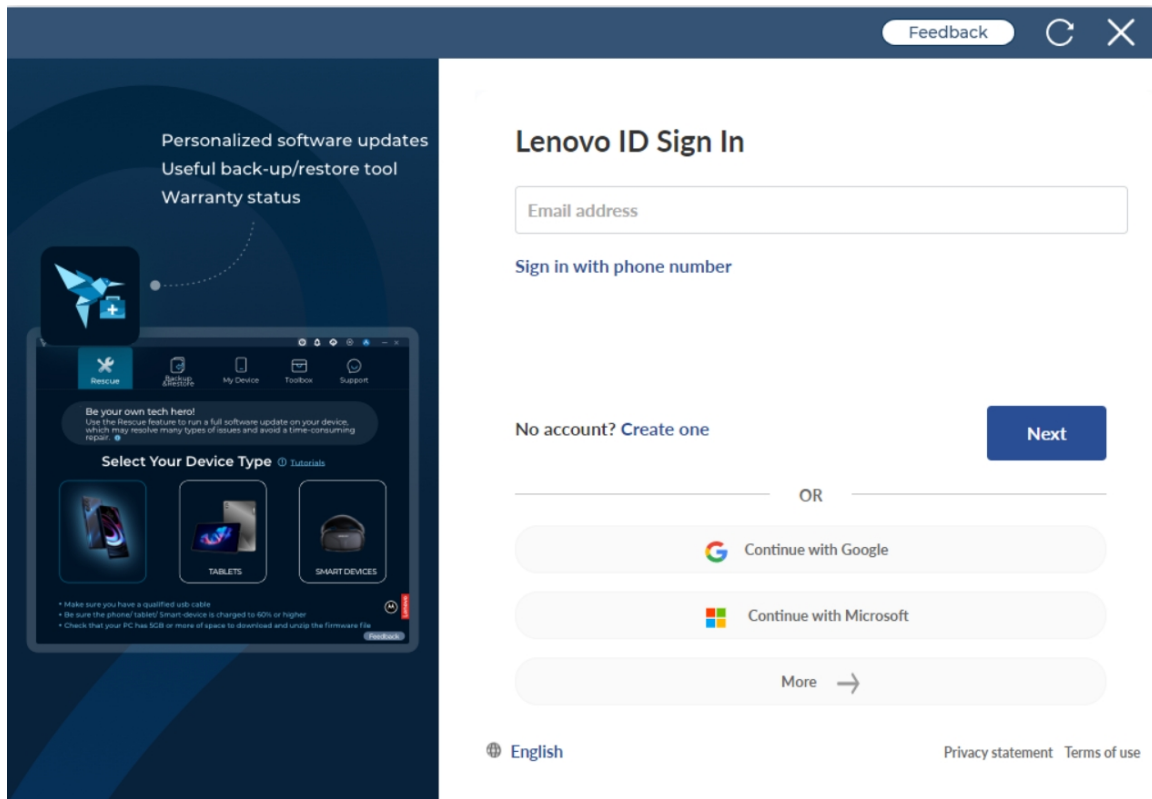
- a. User (Register and so on)
- b. Close the client
- c. Continue and login to RSA

User

You can log in, register account with this page

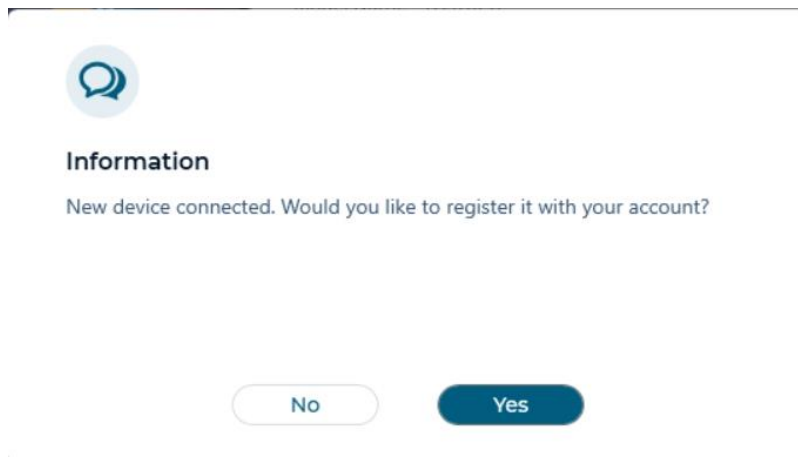
User management

Login: Click  icon at the right top of page, the login page pops up. You can login Rescue and Smart Assistant Client by Lenovo ID or Google account and so on

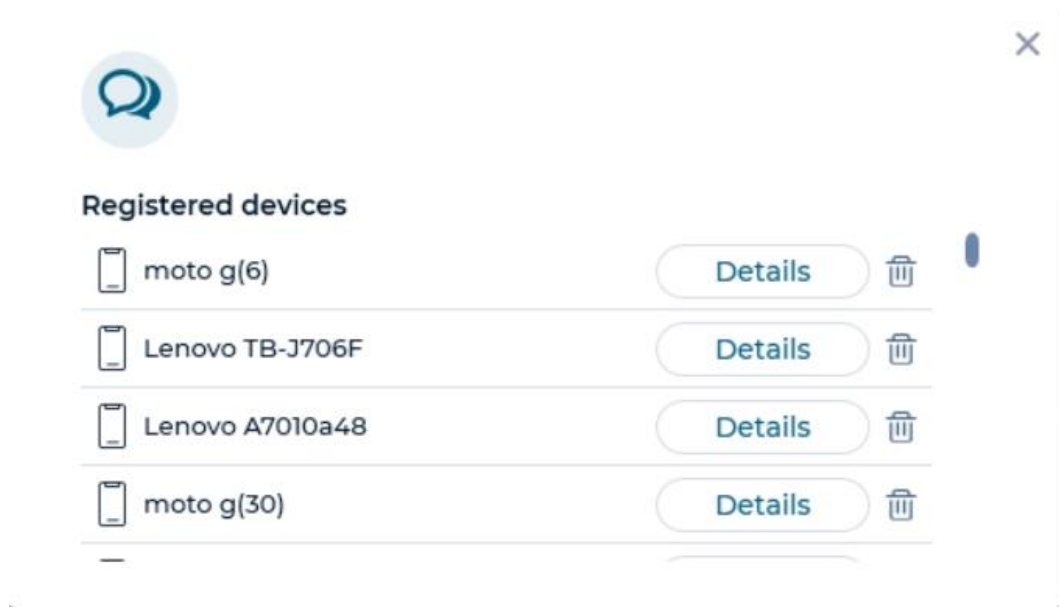


Registered devices

Log in your account, and then connect your new device. The prompt box will pop up as follow:



Click the **Yes** button, your device information will be collected. Click the account icon and **Registered devices**, you can view your connected device. You can unregister the device when clicking the  icon.



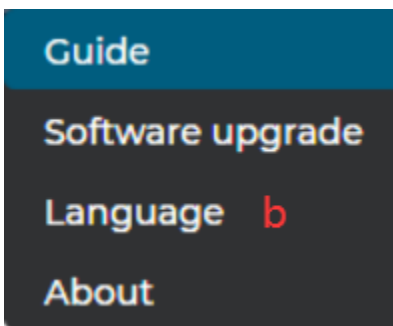
Setting

Click  icon at the right top of page, and then you can view the user guide, and switch the client's language on setting management.

a. Help

Click Help icon , you can view the help document.

b. Language Option



Click Language, and then select "Português" and OK, you can switch the client's language to Portuguese.

Language

☒ English

☐ Português

☐ Polski

☐ Español

☐ Русский

☐ 日本語

☐ Italiano

☐ 简体中文

☐ Deutsch

☐ Slovák

☐ Српски

☐ Română

☐ български

☐ Čeština

☐ Français

!

Application restarts after changing language.

Cancel

OK

Click Ok button, the following page will appear:

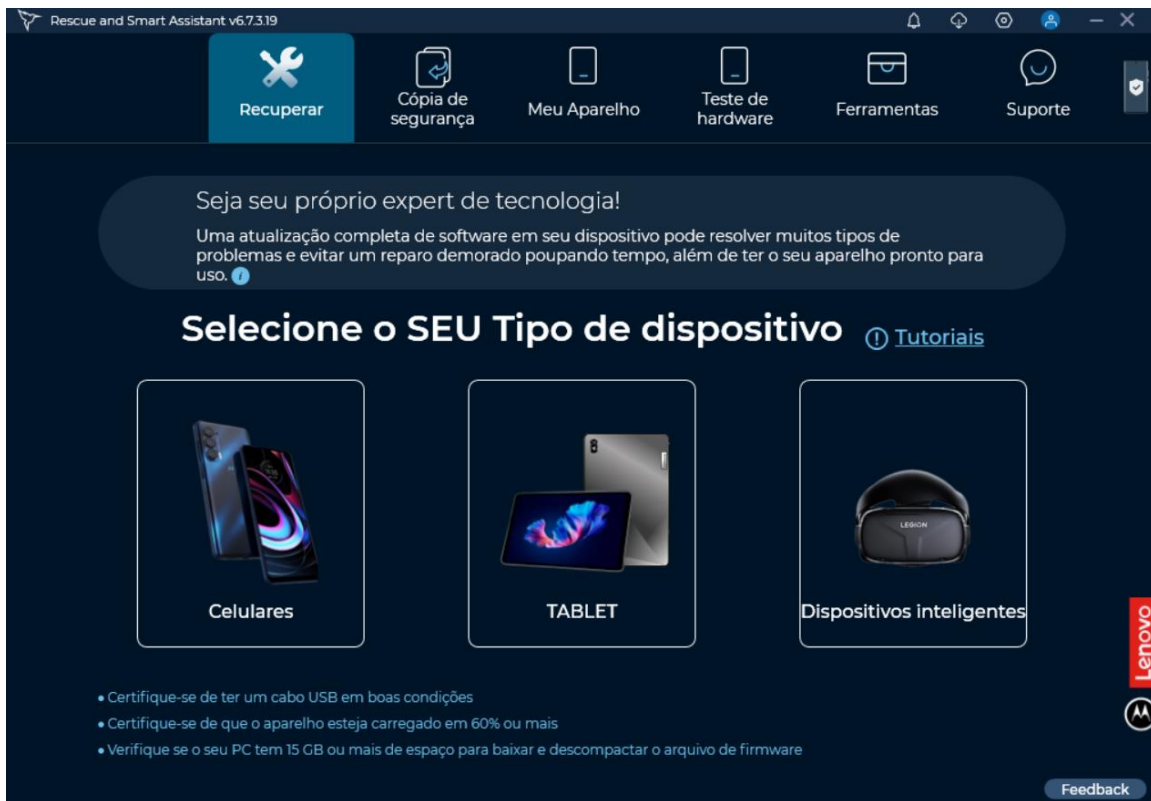
Warning

The application will restart automatically. Make sure that operations are done, or choose to restart later.

Restart later

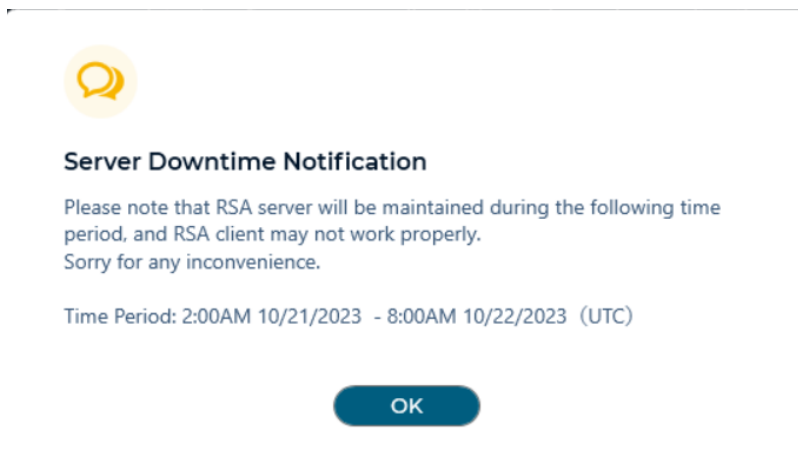
Restart now

Click **Restart Now**, the client will be restarted at now and its language will be changed.



Notification

Launch Rescue and Smart Assistant client, the unread notification will pop up automatically.



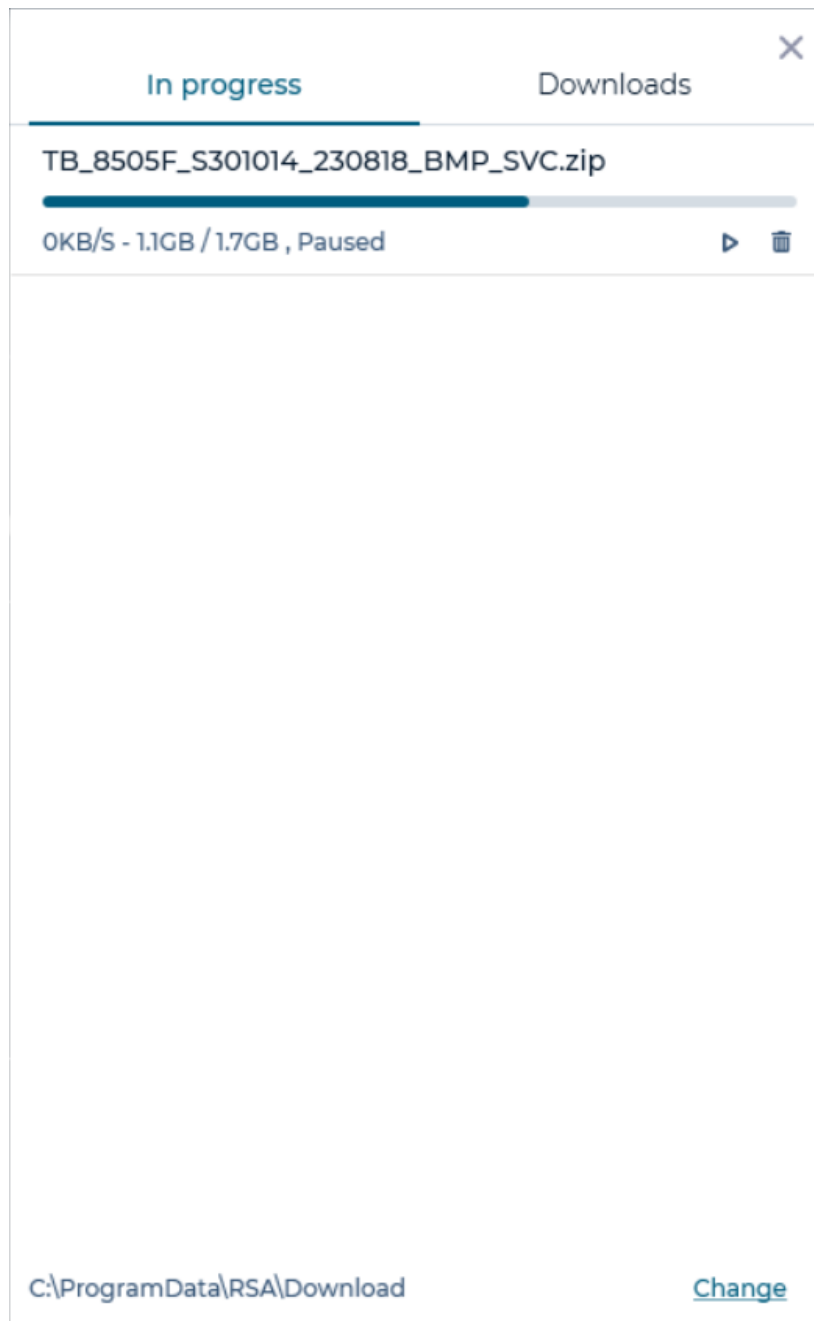
Click  icon, it will list all notification. Here, you can click delete icon to delete the notification. Also you can view history notification.

Server Downtime Notific...	2023-10-19
Feedback for TB370	2023-09-22
Feedback for TBDSJIUD...	2023-09-22
Reply Title: Feedback for...	2023-09-15
Reply your feedback	2023-07-17
Reply your feedback	2023-06-30
Reply your feedback	2023-03-20

Download Center

Click  icon, it will enter download center. All downloading resource including ROM package and Country code package will be added to "In progress" page.

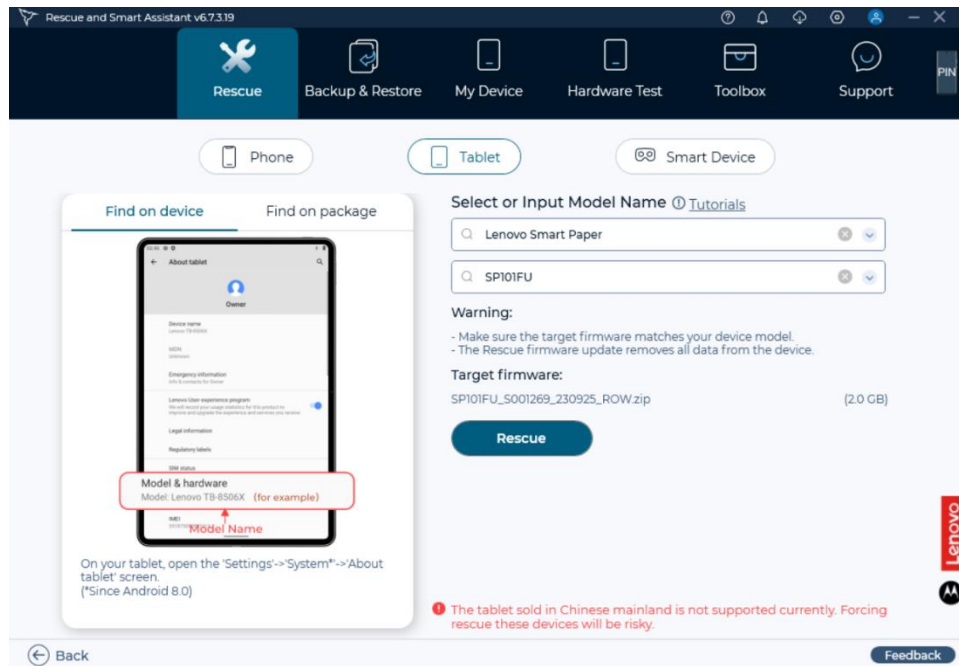
- Click pause icon, the pause icon will become to start icon and the downloading resource will be stopped.
- Click start icon to restart to download resource.
- Click delete icon to delete the downloading or pause resource.
- Click **Change** option to modify the resource storage path.



All downloaded resources will be moved from **In progress** page to **Download** page. You can delete the downloaded resource by clicking the Delete icon. Enter **select a Device** page, select a device's firmware, and download it. After the firmware download is complete, the **Go to Rescue** button will be displayed behind the firmware on **Downloads** page.

In progress		Downloads	
PAC_upgrade_tool_V2.17.zip	568.6KB		
SP101FU_S001269_230925_ROW.zip	3.2GB	Go to Rescue	
PAC_Ironbark.zip	9.1MB		
QFil.zip	2.0MB		
MTK_Flash_Tool_5.2136_Maple.zip	37.8MB		
MTK_flash_tool_V6.zip	9.5MB		
MTK_Flash_tool_v5.1920.00.001_V1.zip	35.1MB		
MTK_Flash_Tool_Asha.zip	31.8MB		
MTK_flash_tool_V6.zip	9.5MB		
Thinkreality_A6_20200408_1420_User.zip	0B		
C:\ProgramData\RSA\Download		Change	

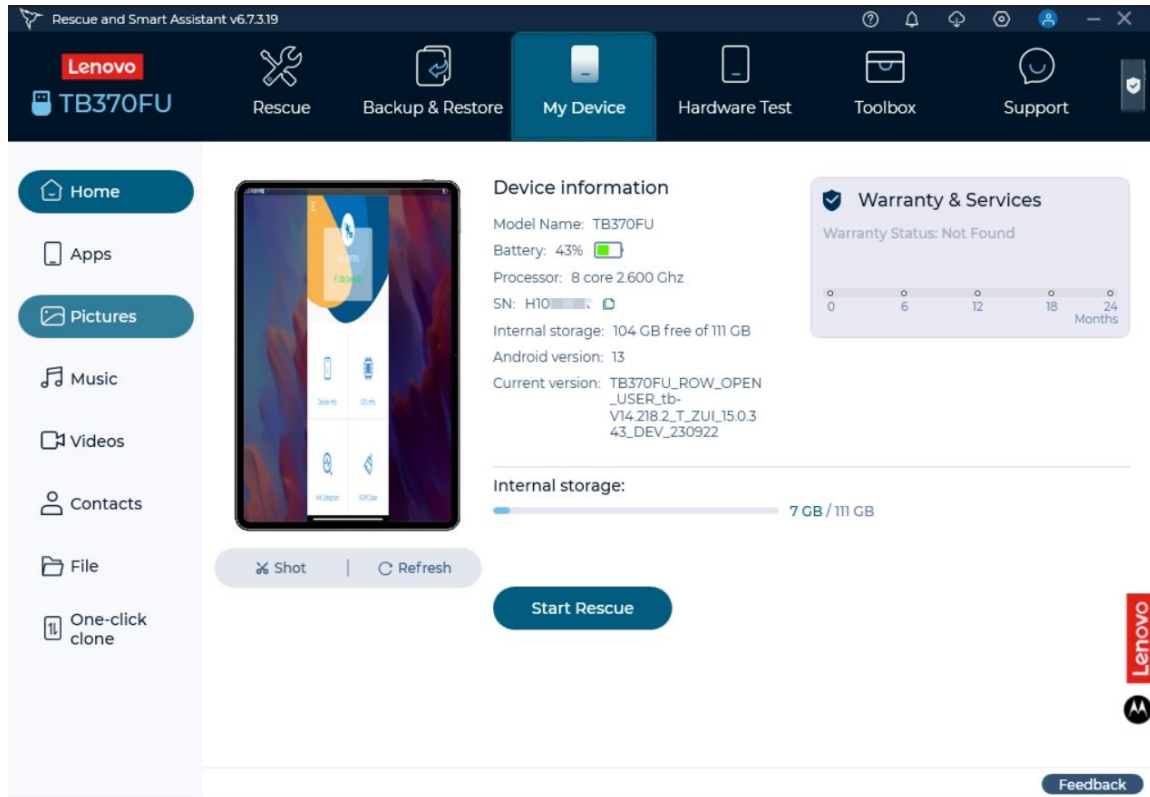
Click the **Go to Rescue** button, it will switch to the **Manual Selection** page and match to the corresponding firmware.



My Device

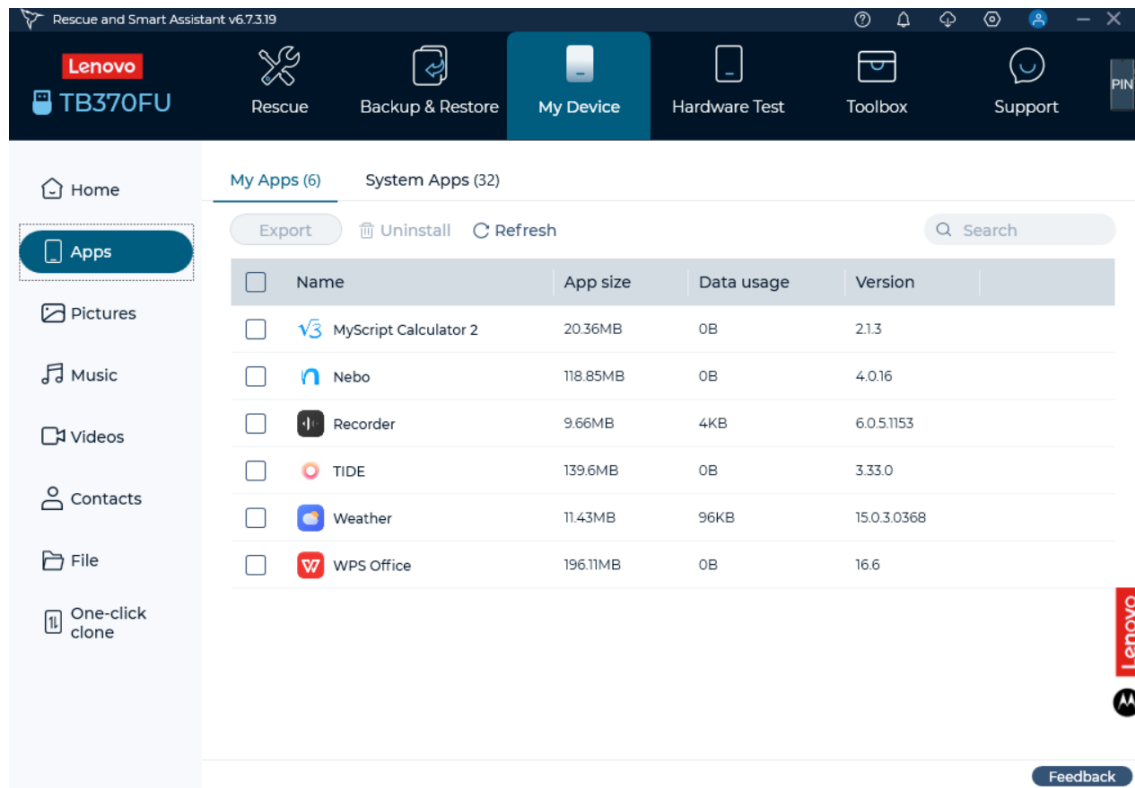
My Device module is designed to manage the media content of mobile device, such as Pictures, Videos, Songs, Contacts, etc. To use this function, device must be connected; the connection could be either USB cable or Wi-Fi.

Home



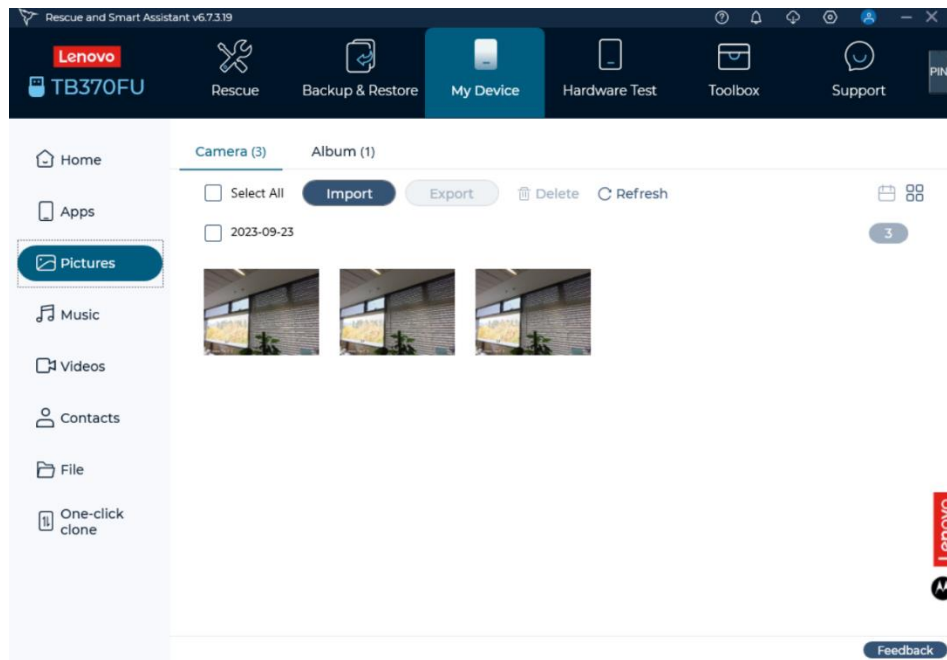
- Device info: Display the device information including model name, battery power, IMEI, SN, Internal storage capacity, external storage capacity, Android Version, and Current Version.
- Capture screen: Screenshot the the device's picture.
- Refresh: Refresh and display current device's picture.
- Start to Rescue: Go to Rescue module.

Application management



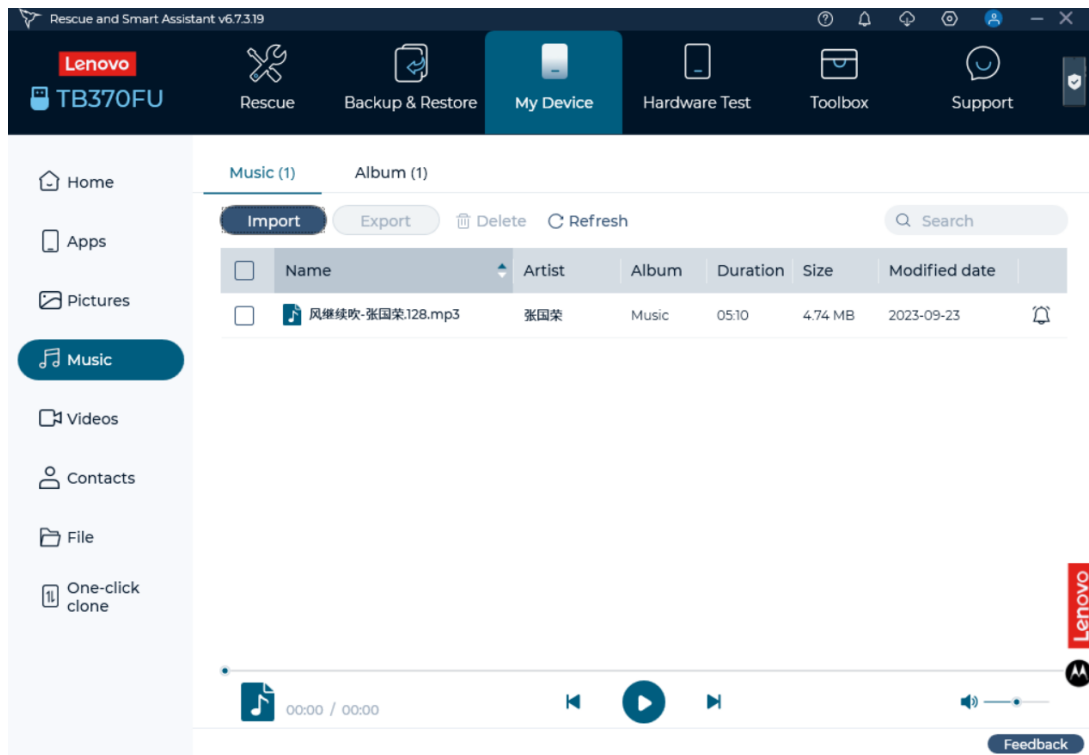
- Support app export. Select app > click **Export** to target path.
- Uninstall app. Select app > click **Uninstall**.
- Sort feature. Sort apps by Name, Size, Data Use, or Version.

Pictures management



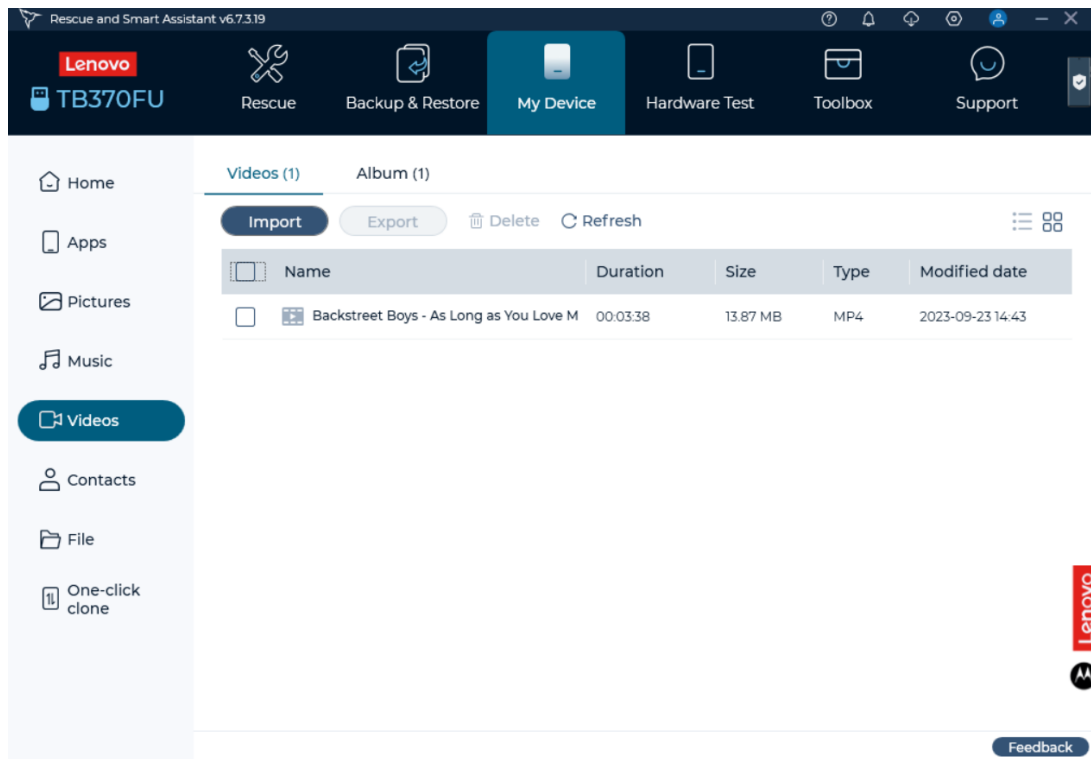
- Import picture from PC path by clicking **Import** icon.
- Select pictures > click **Export** to selected path.
- Click **Delete** to delete selected pictures.
- Two view modes: Time and Grid. Click  icon to switch to time mode,  icon to switch to grid mode.

Songs managment



- Click **Import** icon to import music from PC path.
- Click **Export** to export chosen music files to PC.
- Click **Delete** to remove selected music.
- Sort files by Name, Artist, Album, Duration, Size, or Modified Date.
- Input keywords to search music.
- Double-click to play and change the progress by dragging. Adjust volume by sliding the bar. Click icon to play previous music. Click icon to go to the next.
- Click **Set as Ringtone** button to set the music as Call, Notification, or Alarm ringtone.

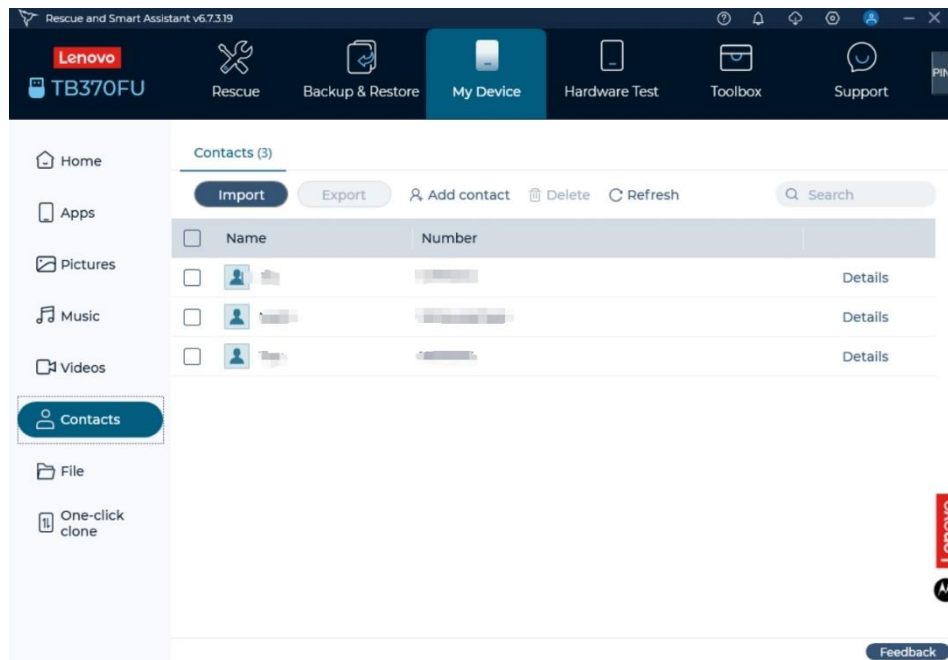
Videos managment



- Click **Import** icon to import video from PC path.
- Click **Export** to export chosen videos to selected path.
- Click **Delete** to remove selected video.
- Support two view modes: Grid and List. Click  icon to switch to list mode,  icon to switch to grid mode.
- Sort files by Name, Duration, Size, Type, or Modified Date.
- Input keywords to search video.

Contacts management

Contacts:

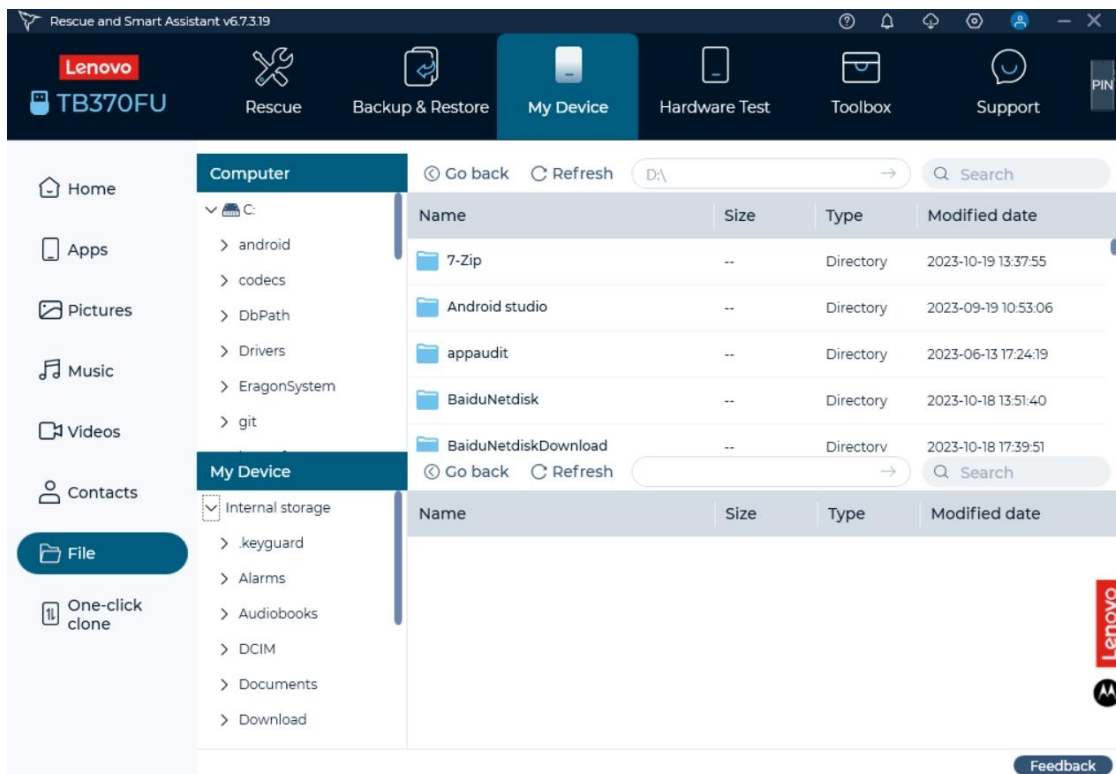


- Click **Add Contact** icon to add new contacts.
- Click **Import** icon to import contact from PC path.
- Click **Export** to move selected contacts to certain path.
- Click **Delete** to remove selected contact.
- When adding or deleting contact on Device/Rescue and Smart Assistant (Lenovo Moto Smart Assistant) Client, click **Refresh**, it will display new contacts list.
- Input keywords to search contacts.
- After clicking a contact, the contact detail information will be displayed at right view. Click **Edit** to edit the contact.

File management

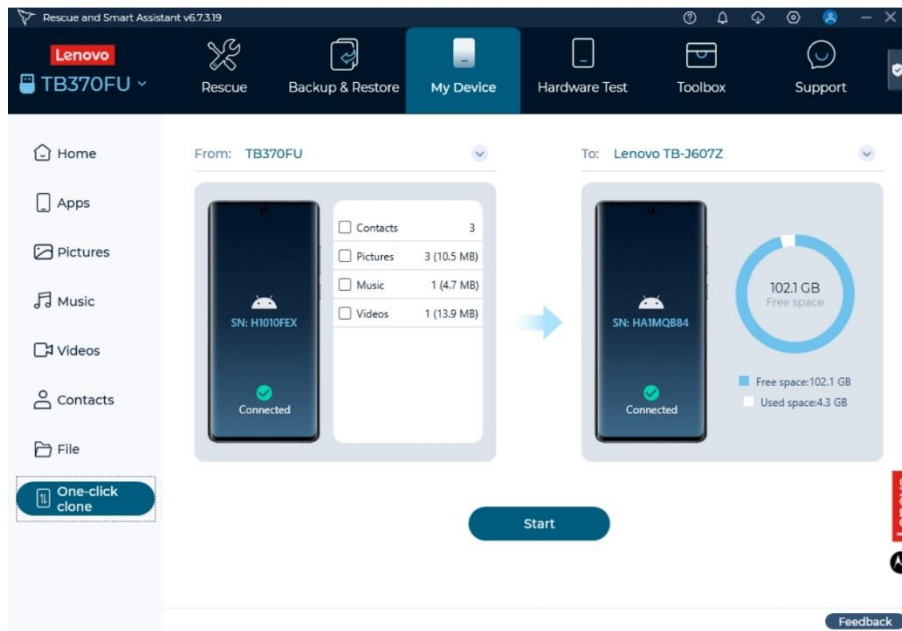
Click File icon to enter the file management view. It will displays PC's file.

- If the SD card is inserted to device, it will display the device's internal storage and External storage file. If there is no SD card in the device, it only displays the device's internal storage file.
- Double-click the folder to open the folder. To copy a file from PC to device or from device to PC, drag the file or folder from PC to device or from device to PC.

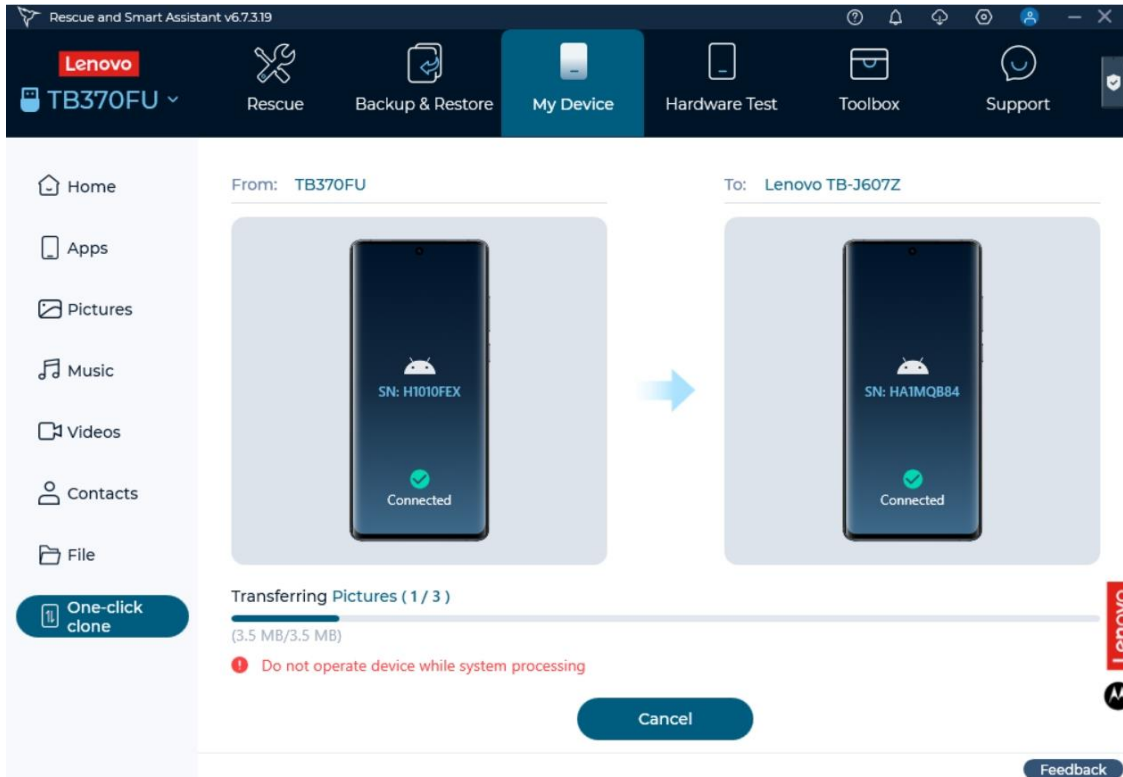


One-key Clone:

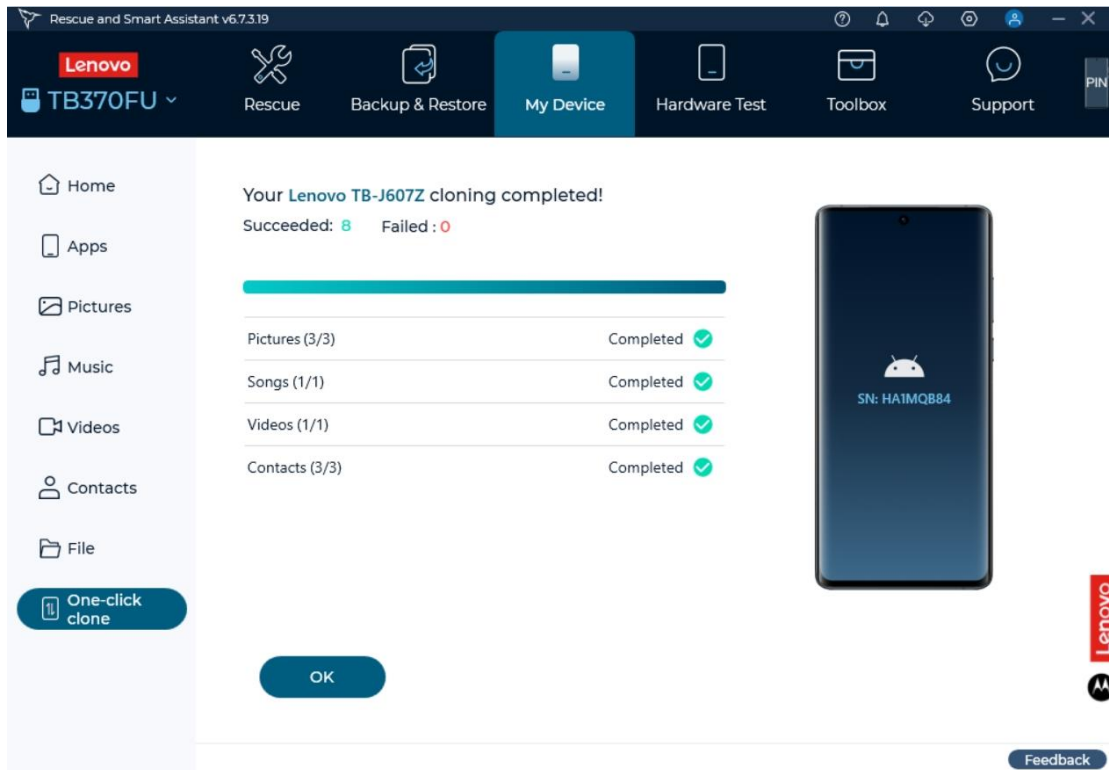
Connect two devices to Client, then click One-key Clone icon, it will enter One-key Clone page. Select the older device as **From** device, new device as **To** device.



Select the backup file, then click the Next button. The **Transferring** page will be displayed.

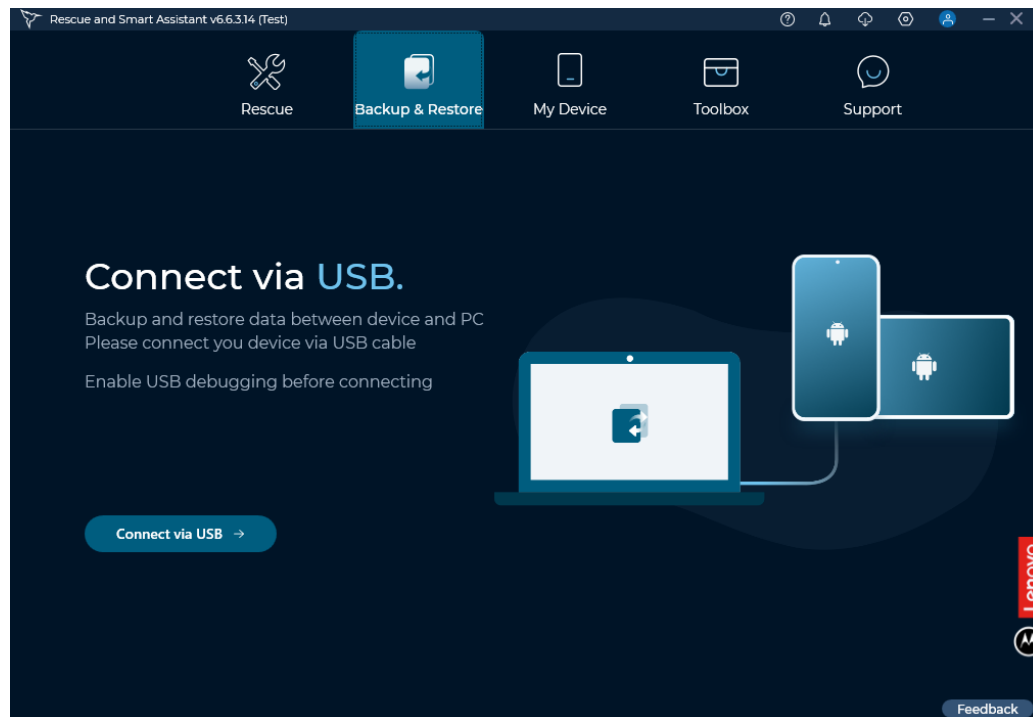


Cloning finished, and then it will enter the result page.

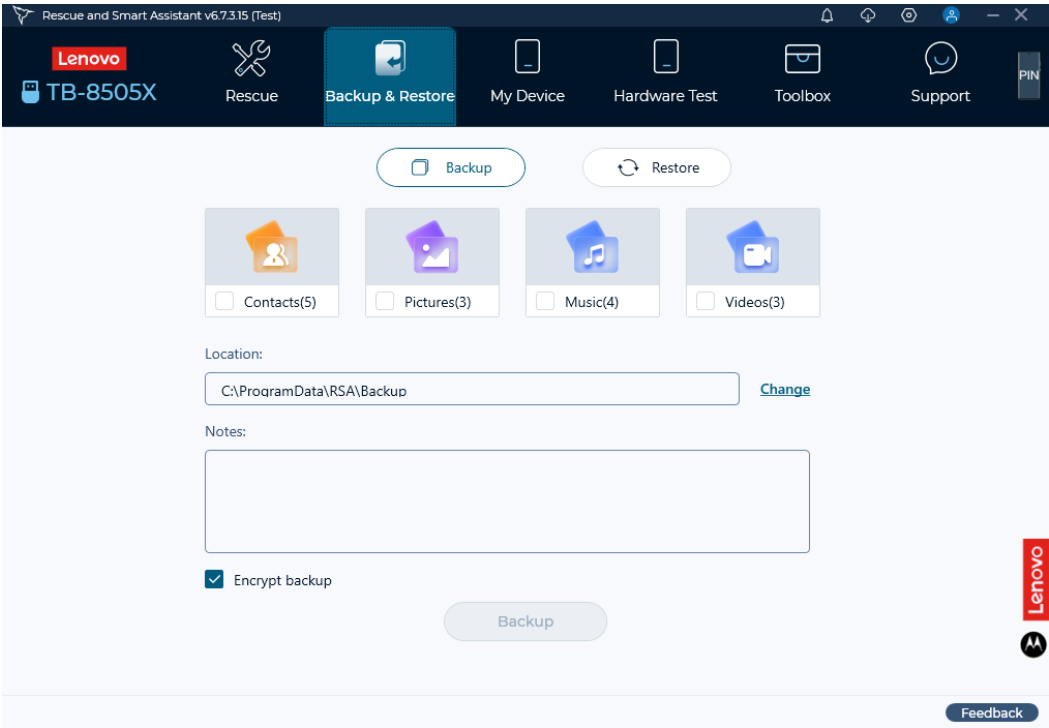


Backup & Restore

Connect one device to Client by USB cable.



Backup



Click Backup icon and select Contacts, Pictures, Songs or Videos icon, and then click Backup button to backup.

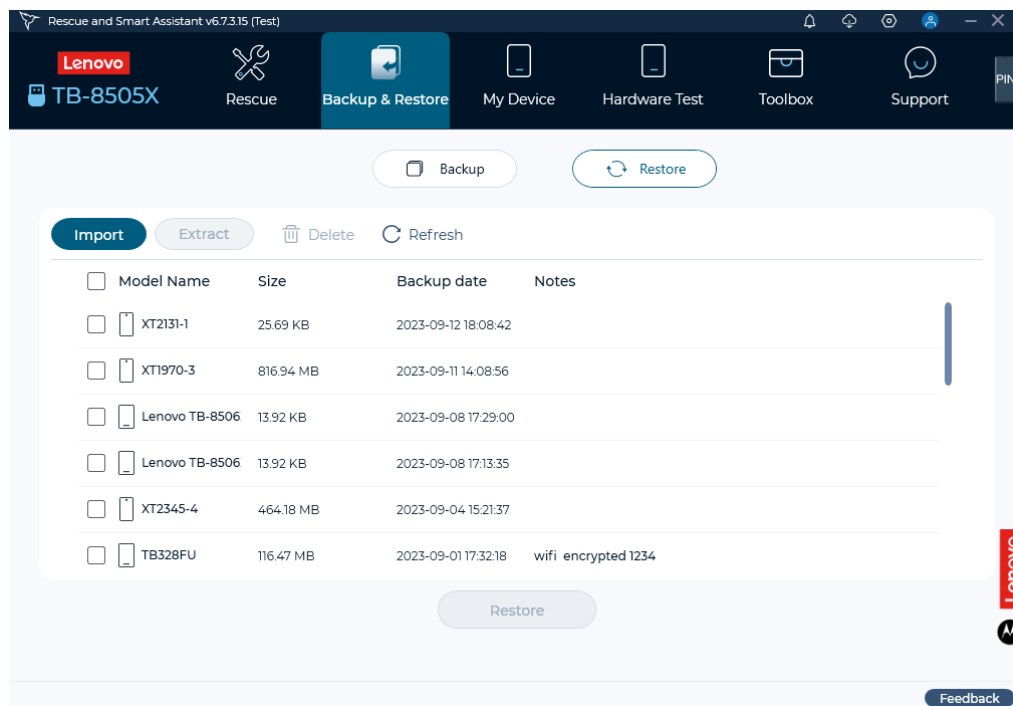
Click Change icon to change the save path for backup file.

Click Open icon to enter the save path.

Check “Encrypt backup” option, you can set the backup file’s password.

Restore

Click “Restore” icon, and then it will enter Restore page. It will display the backup file’s Model Name, Size, Backup date and Notes.



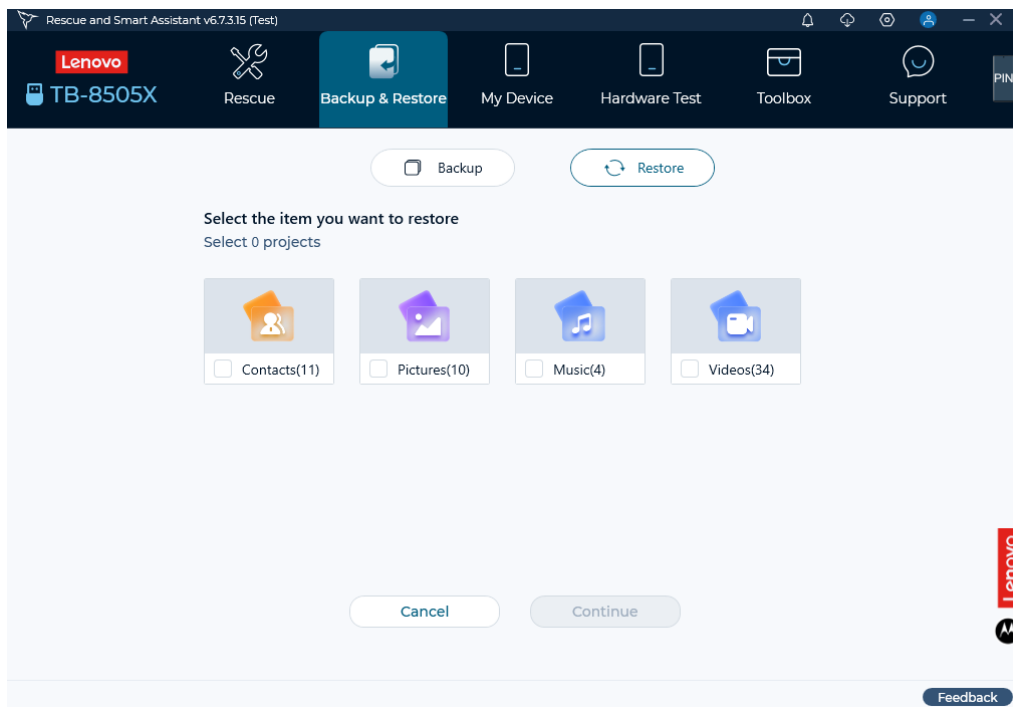
Click “Import” icon to import backup file.

Select backup file and click “Extract” icon to extract the backup file, and then import them one by one.

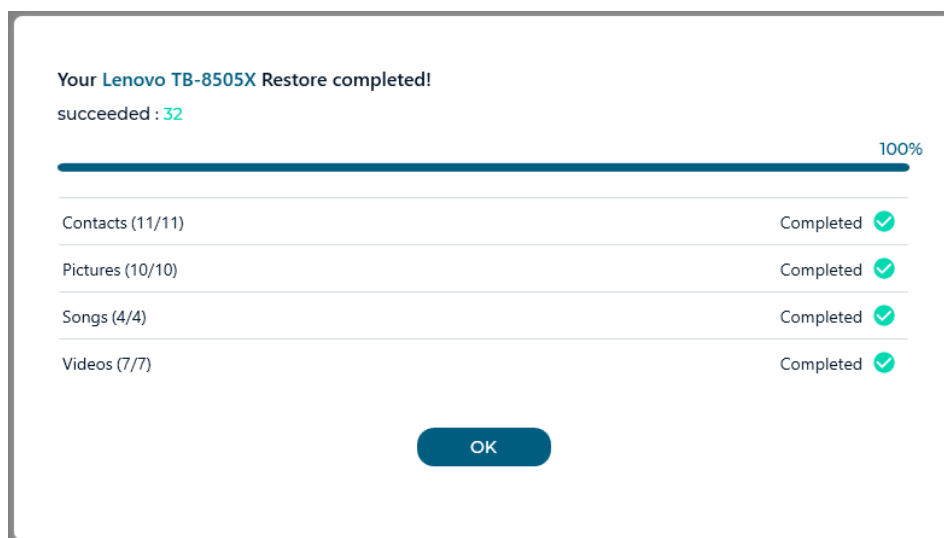
Select backup file and click “Delete” icon to delete the backup file.

Click “Model name”, “Size”, “Backup date” or “Notes” to sort by backup file.

Select a backup file, then click “Restore” button to enter detail restore page. And then select needed restore item and click “Continue” to restore.

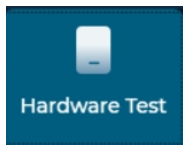


Restore completed, the following page will appear:

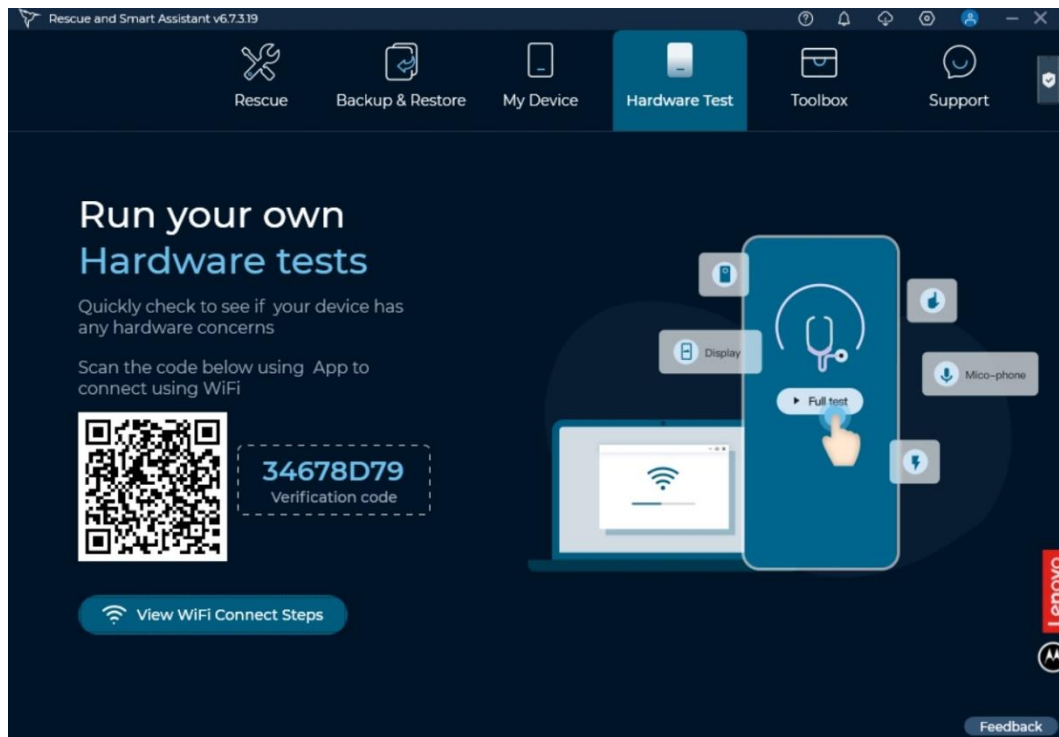


Hardware Test

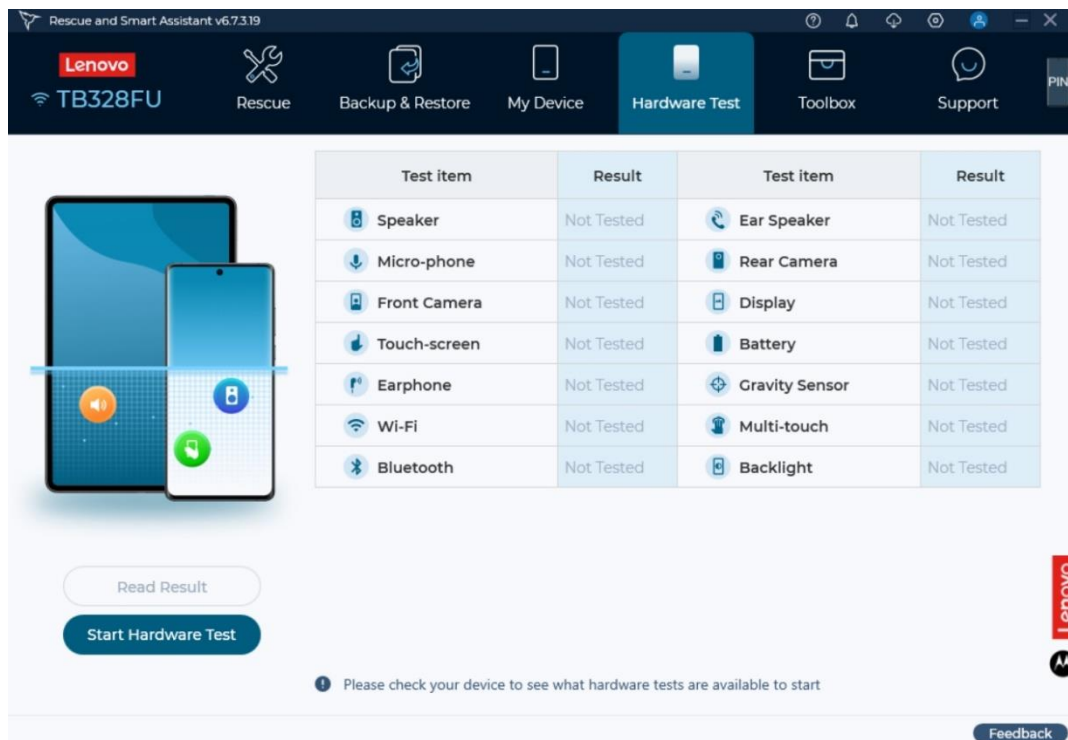
Click the 'Hardware Test' plug-in button.



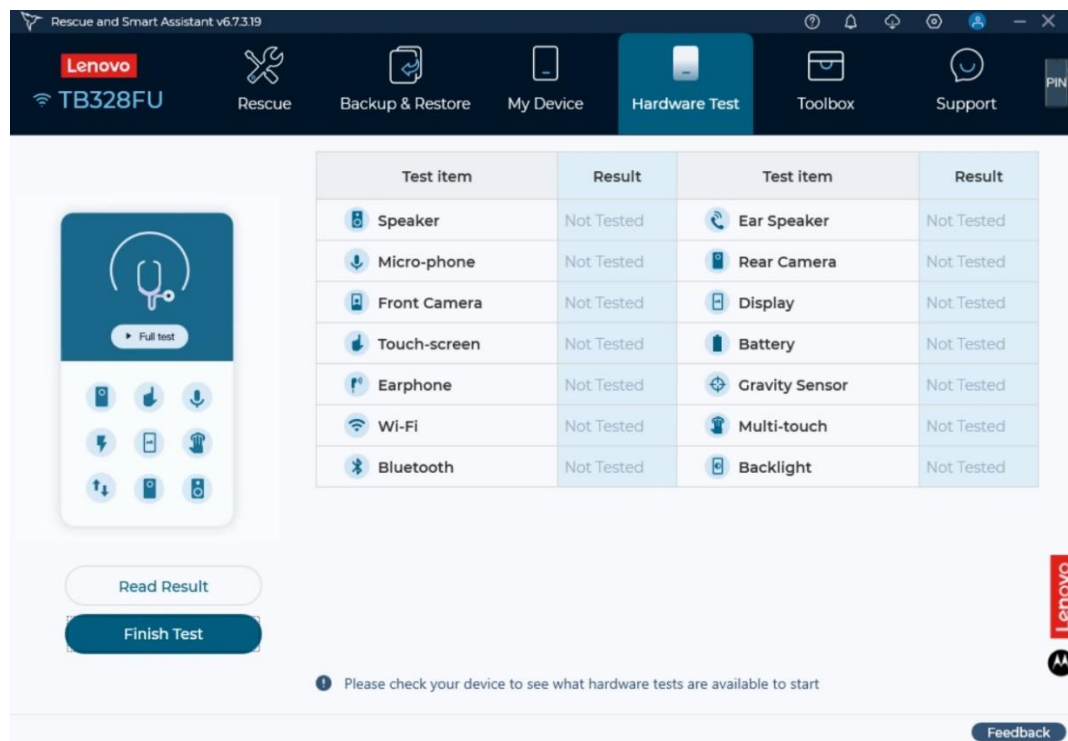
Connect the device follows the instructions on the page.



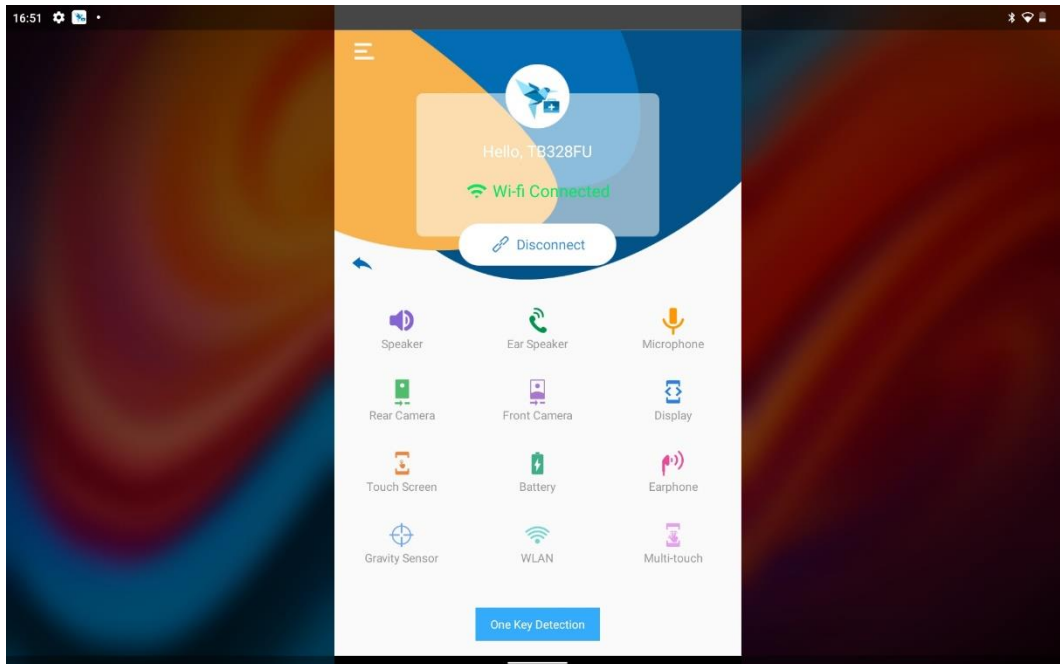
After connected device, the page will show the hardware test items.



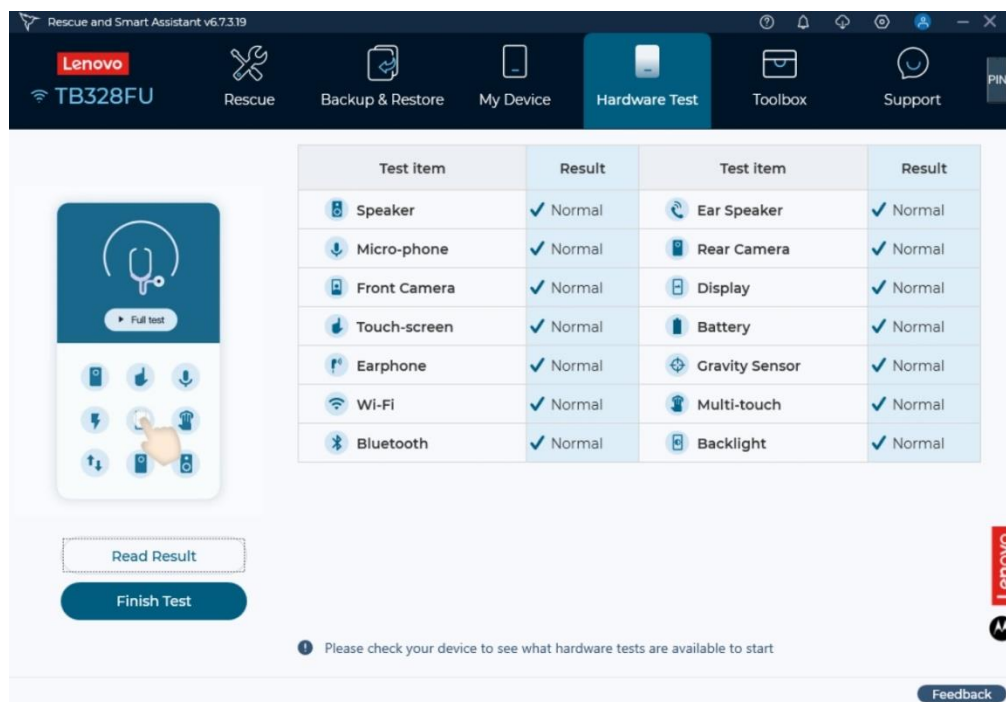
Click the 'Start Hardware Test' button to start hardware testing, the button will change into 'Finish Test'. 'Read result' is highlight and click it can get the result from device.



The APP in device will show as follow.

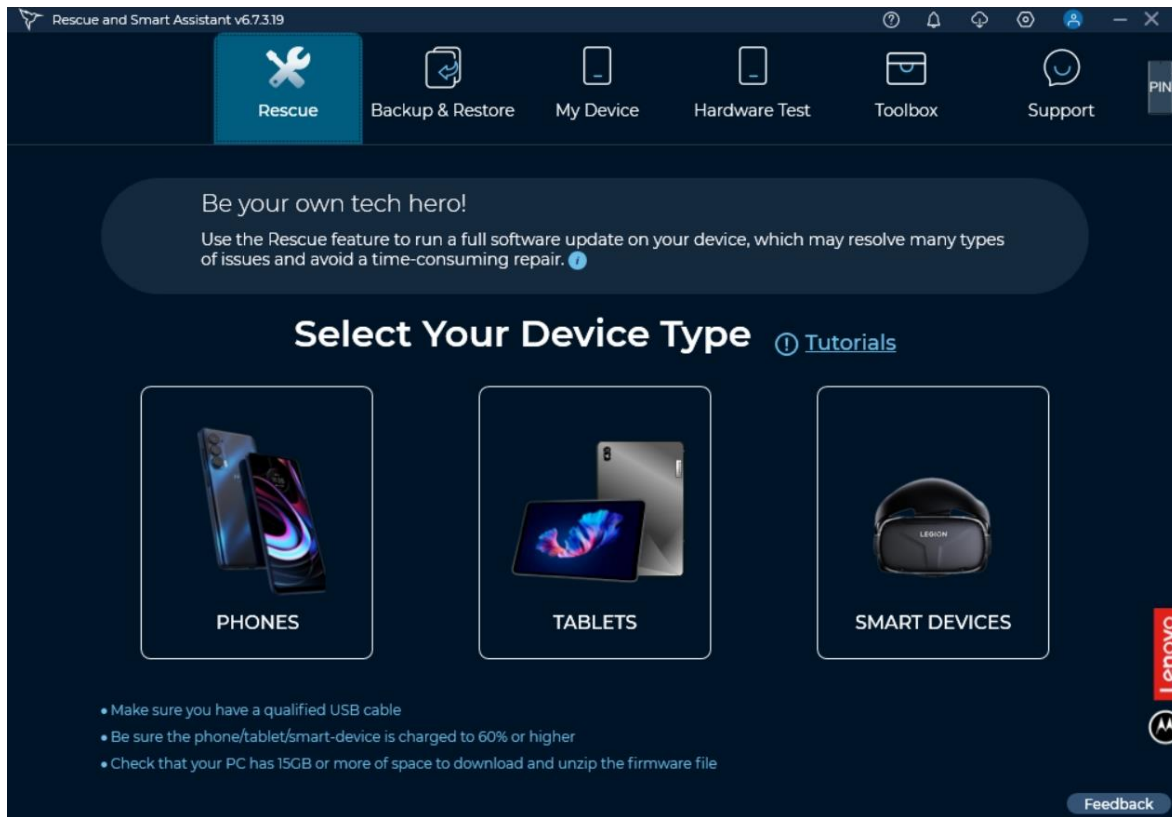


Do the hardware test and click 'Finish Test' or 'Read Result' in client, it will show the test result in client.



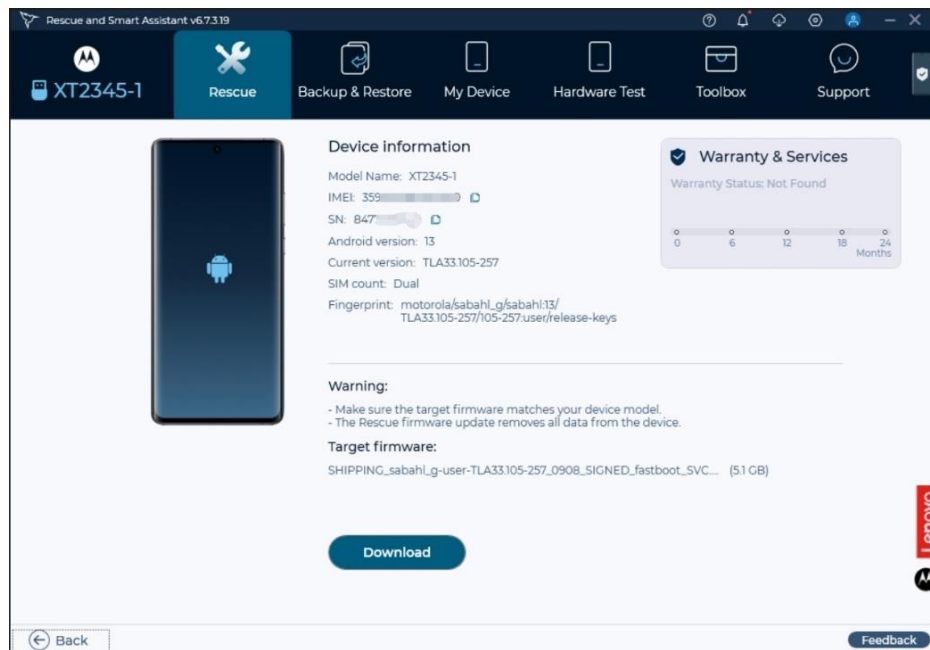
Rescue

Connect device on Fastboot and USB debugging Mode, it can match firmware automatically. If device is powered off, enter power off Mode, select device's firmware to rescue.

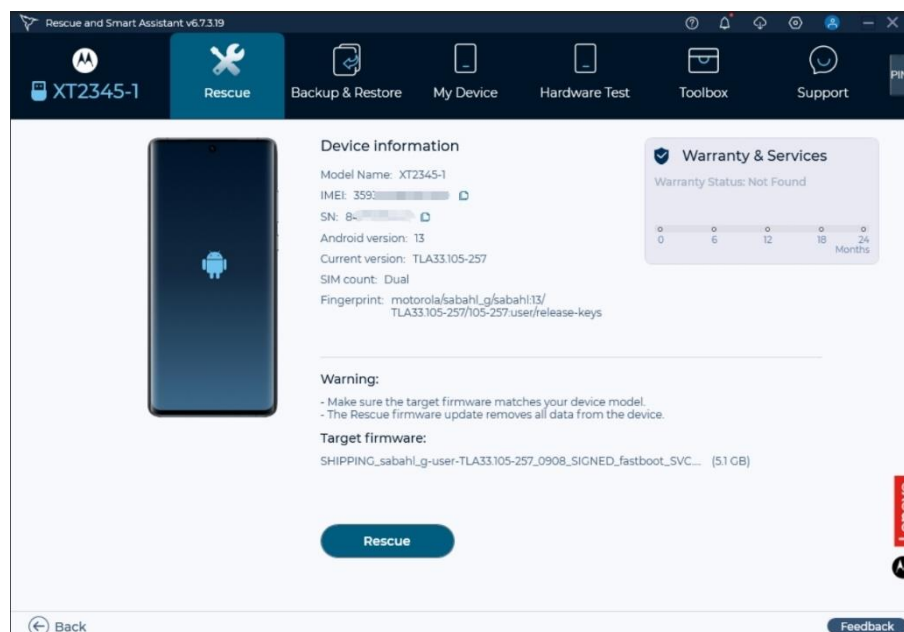


Fastboot Mode Rescue

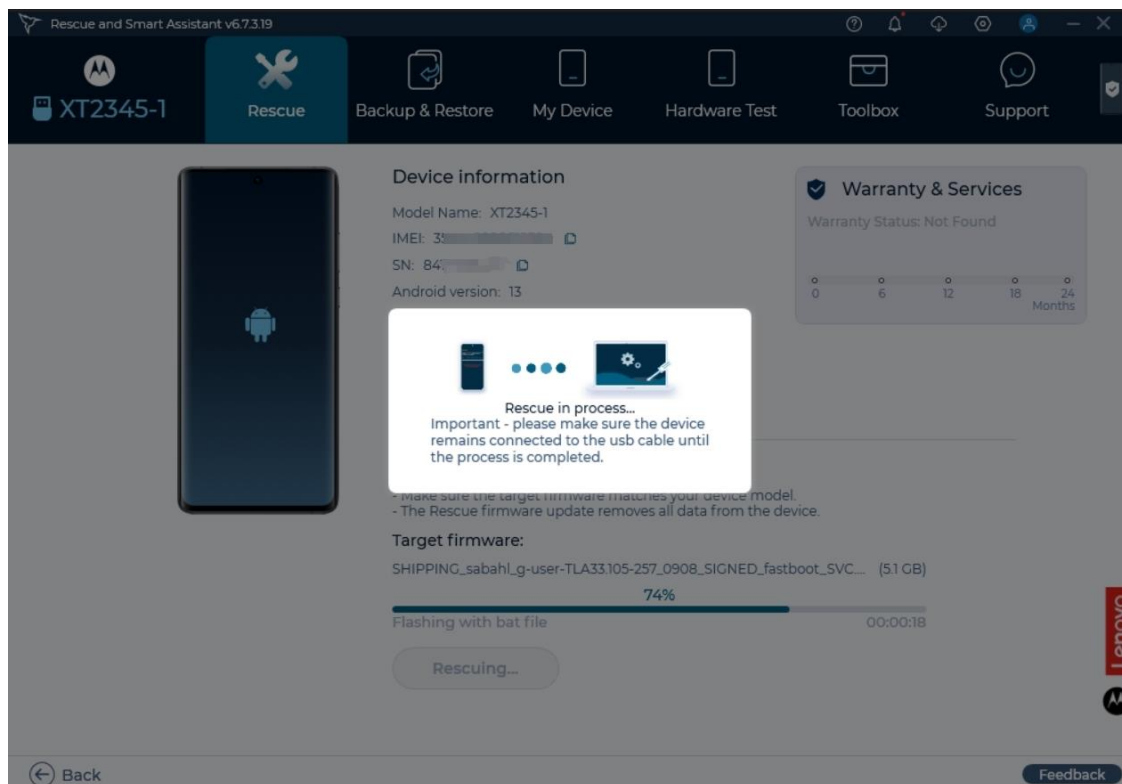
Connect a Fastboot mode device according to the prompt message Rescue→Phone page. If it is a supported model and there is a matching firmware, a similar display will appear as follows:



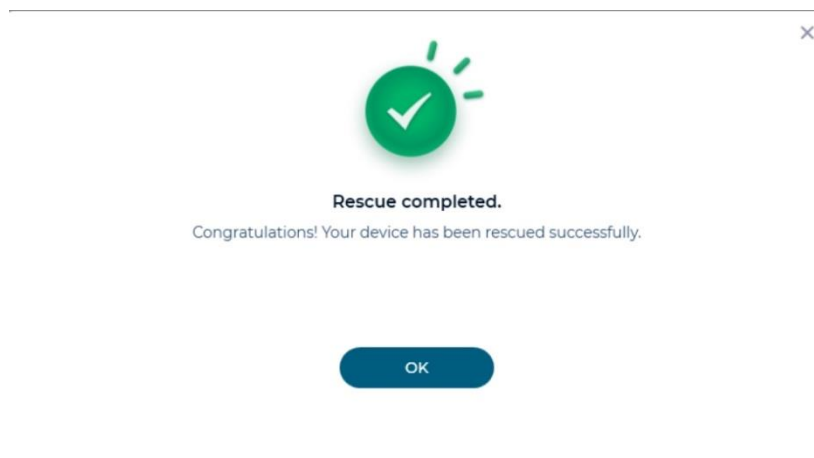
Click download icon to download the firmware. When the firmware download finished, click the **Rescue** button to rescue device.



Click **Rescue**, it will begin to rescue, and the Rescue in process pop-up window will appear.

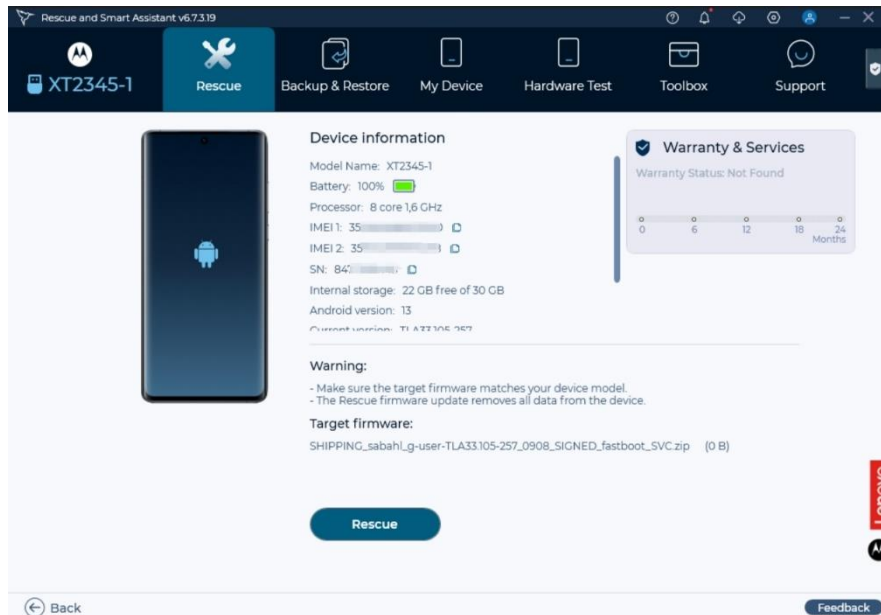


Once the rescue is completed, the following pop-up box will appear.



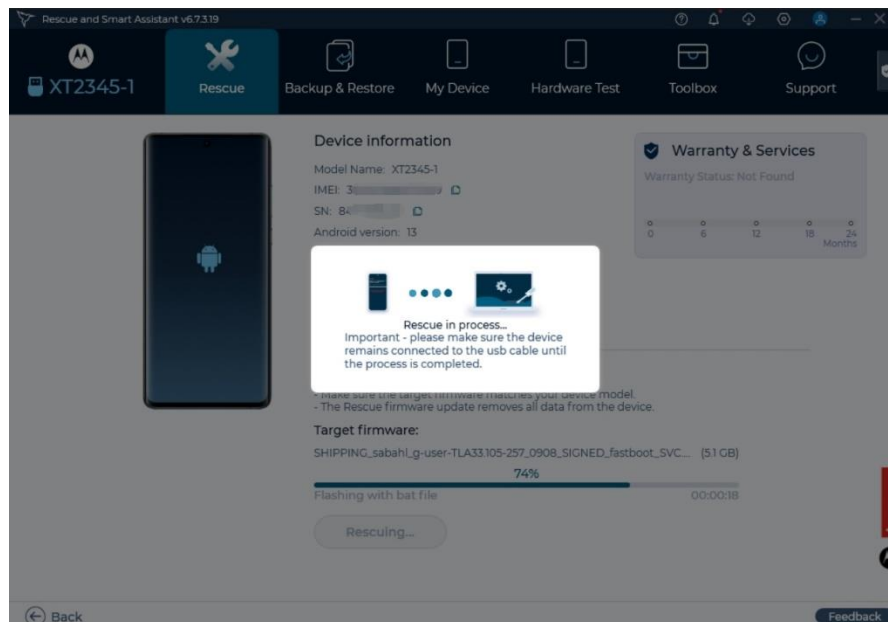
USB Debugging Mode Rescue

Power on your device, enable **USB debugging** on device. If it is a supported model and there is a matching ROM available, a similar display will appear as follows. You can click download icon to download firmware. When the firmware download is finished, click the **Rescue Now** button to rescue device.

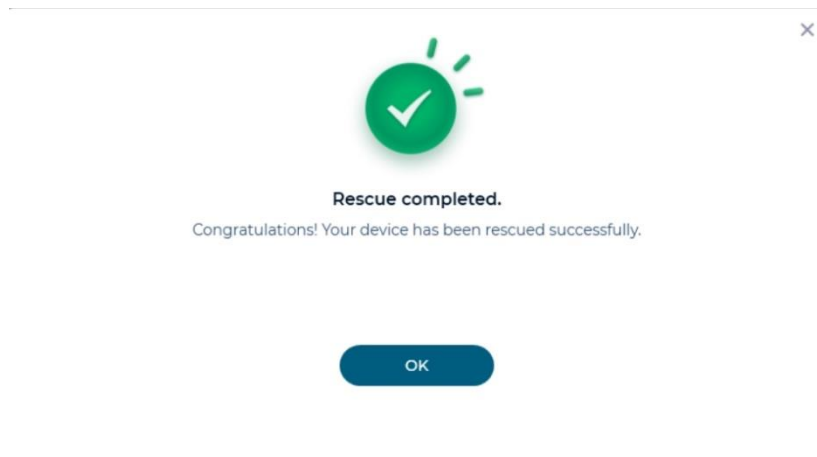


Click **Rescue** button, the connect box will pop up. Connect the device according to the prompt message.

If your device supports Fastboot mode, RSA will switch your device to Fastboot mode and start rescue automatically, no manual connection required.

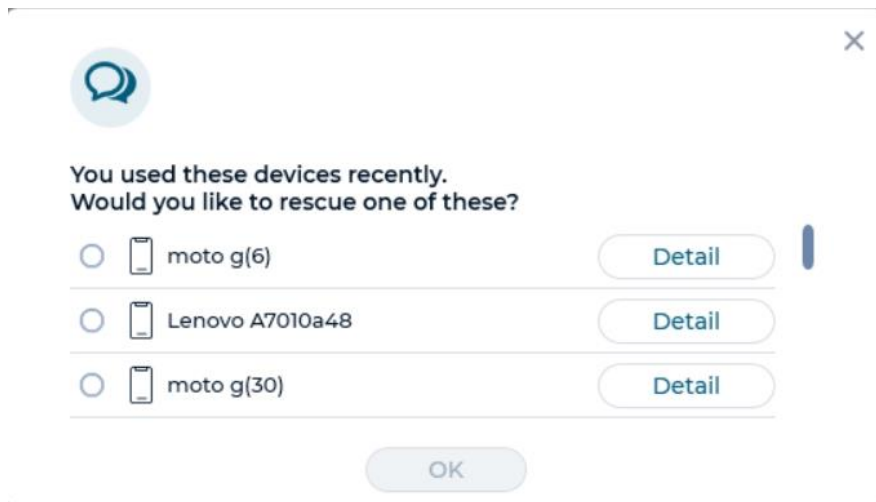


Once the rescue is completed, the following pop-up box will appear.



Power-off Mode Rescue

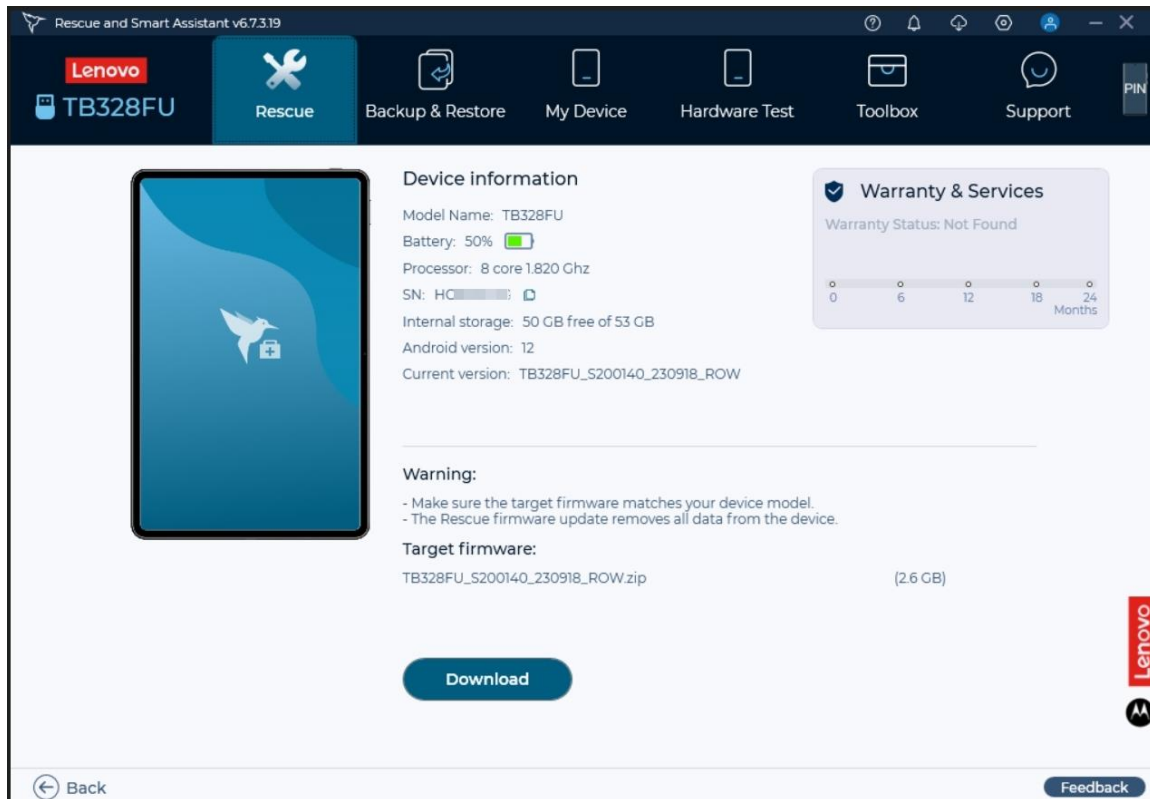
Enter Power-off Mode page, Close the Registered devices pop-up box, it will enter **Select Or Input Model Name** page. If you have registered any device(s), the **You used these devices recently. Would you like to rescue one of these** pop-up box will pop up. Select one that you want to rescue. Rescue and Smart Assistant client will help match the selected device's product name and model name automatically.



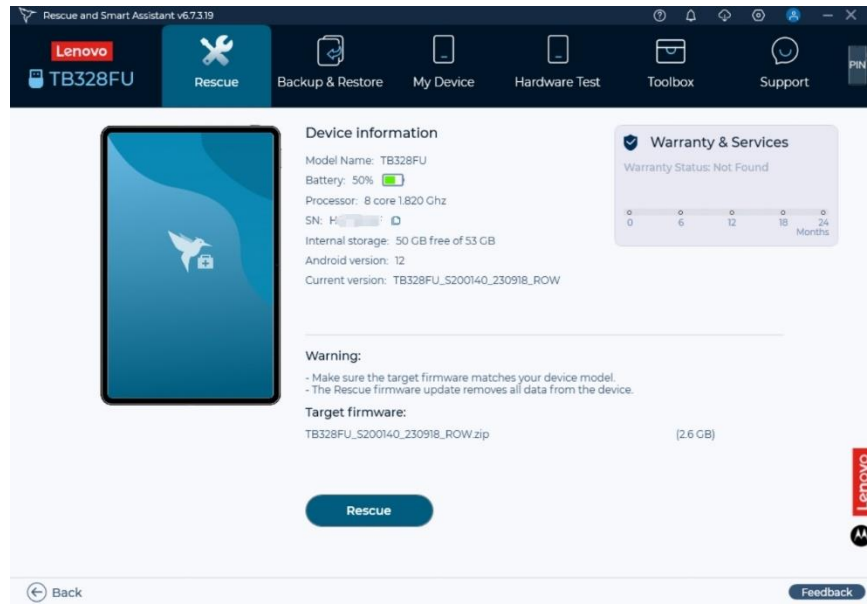
Tablet or Smart Device Rescue

1. USB Debugging Mode Rescue

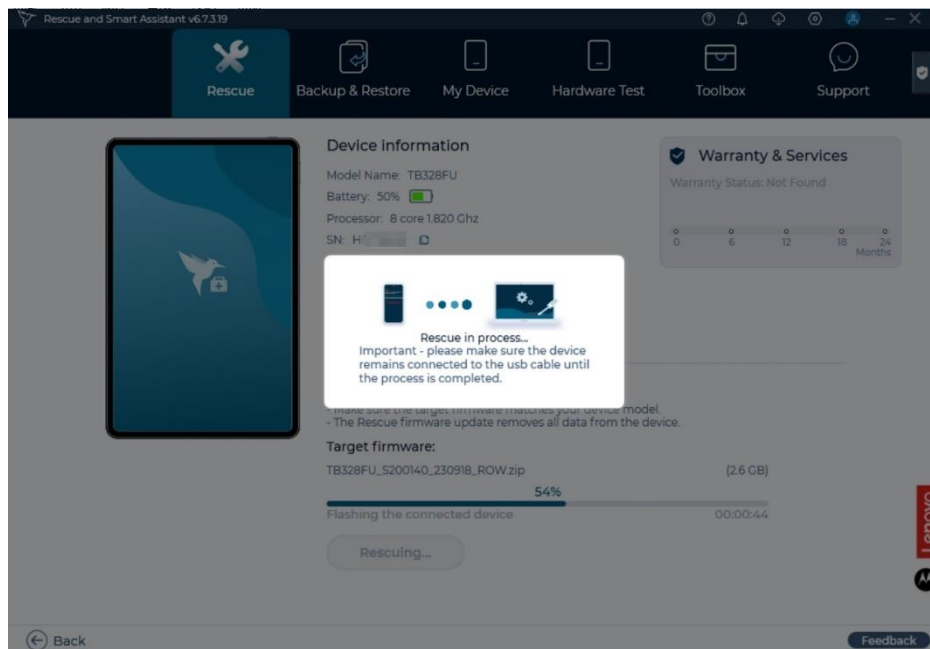
Power on your device, enable “USB debugging” on device. Enter any page of rescue except for phone’s manually selecting page. Connect your tablet via USB cable, if it is a supported model and there is one matched ROM available, when you Click the ‘Start Rescue’ button at Home page, a similar display will appear as follow. You can click download icon to download firmware.



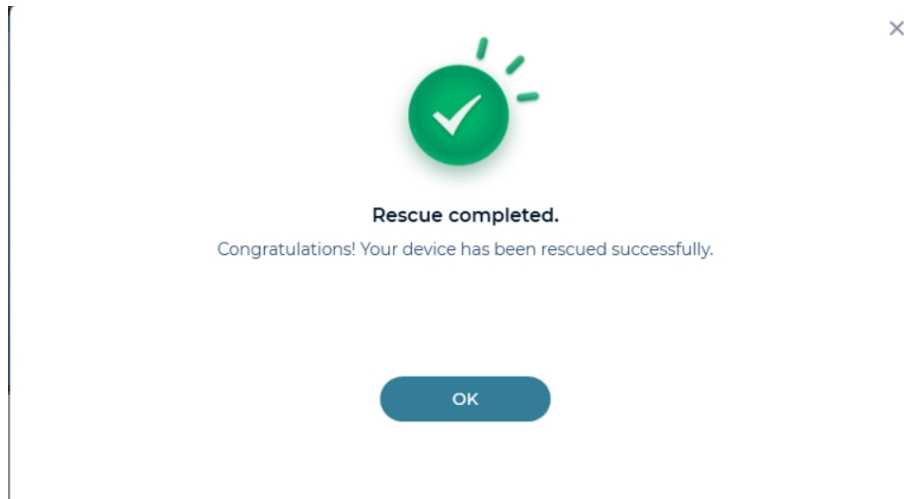
When the firmware download finished, you can click the “Rescue” button to rescue device.



Disconnect your device and connect the device according to the prompting message, the flashing will begin and then the progress bar will appear as follows:



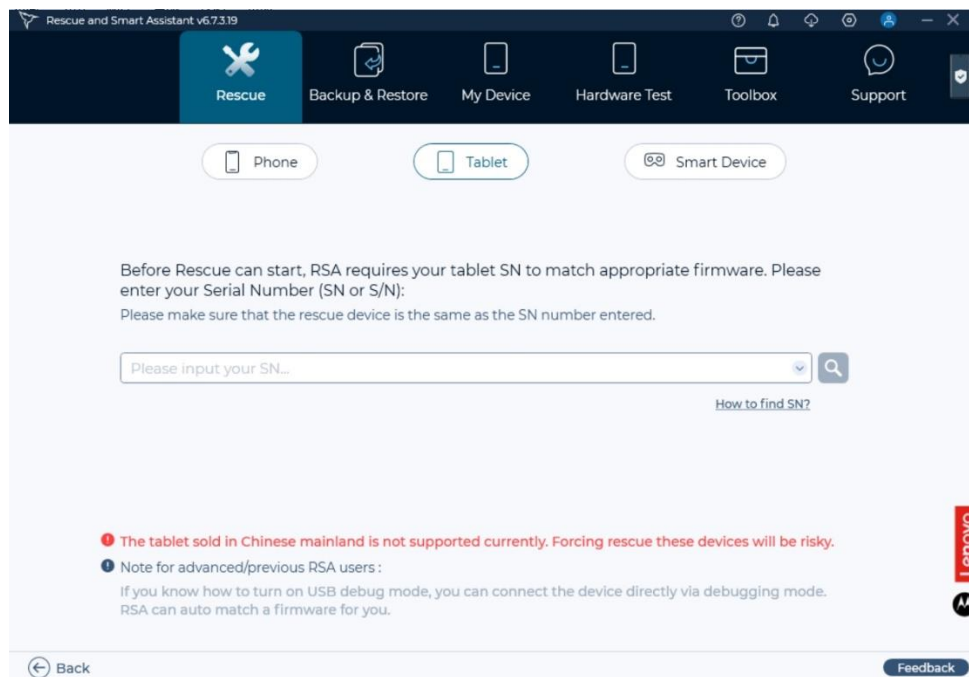
Once the rescue is completed, the following pop-up box will appear, and your tablet will boot automatically.



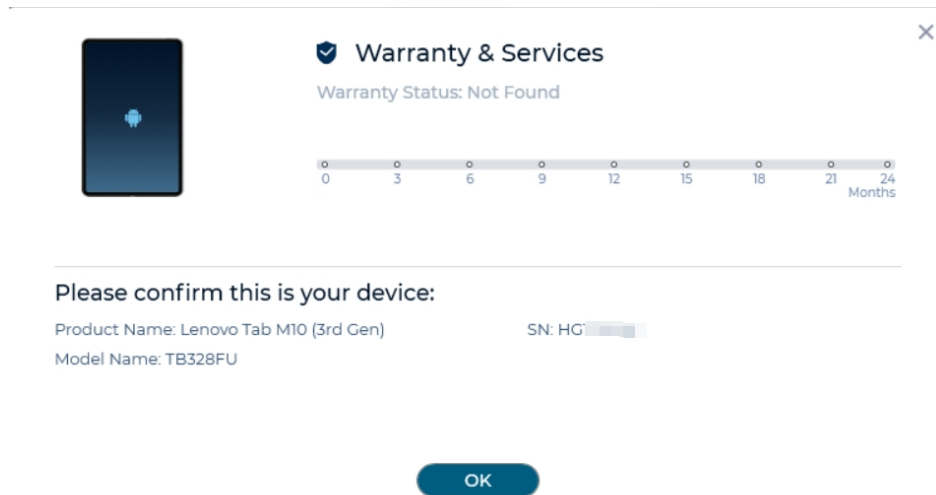
Here is a video for HOW to rescue your tablet by USB debugging mode [//insert the video](#)

2. Rescue by SN Match

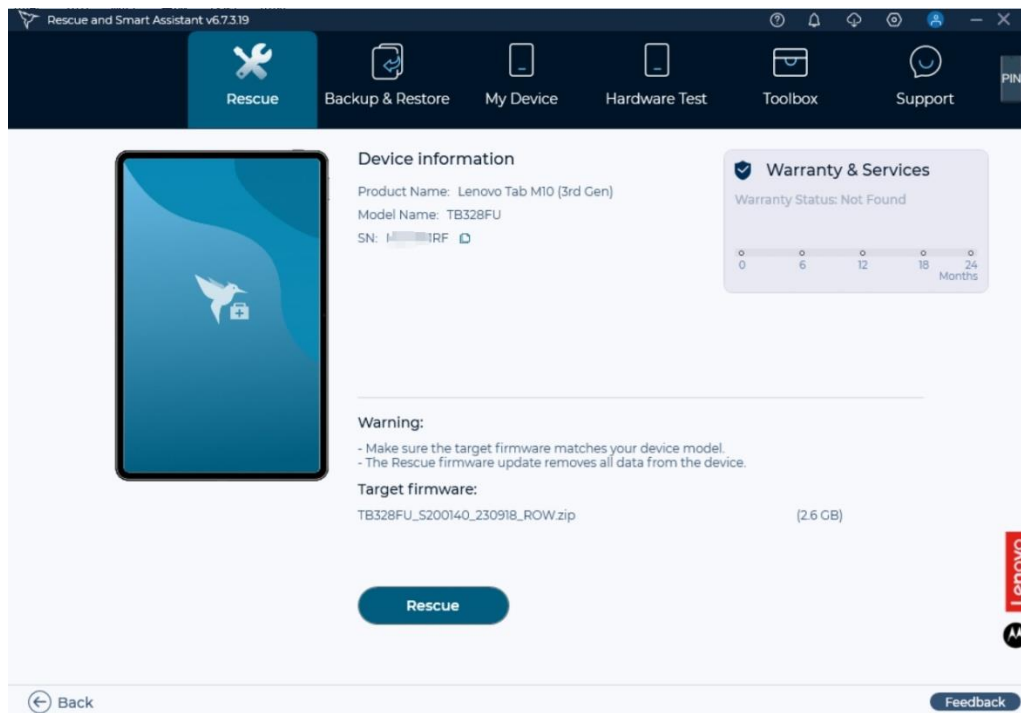
Click “Tablet” button, it will show the SN detection page.



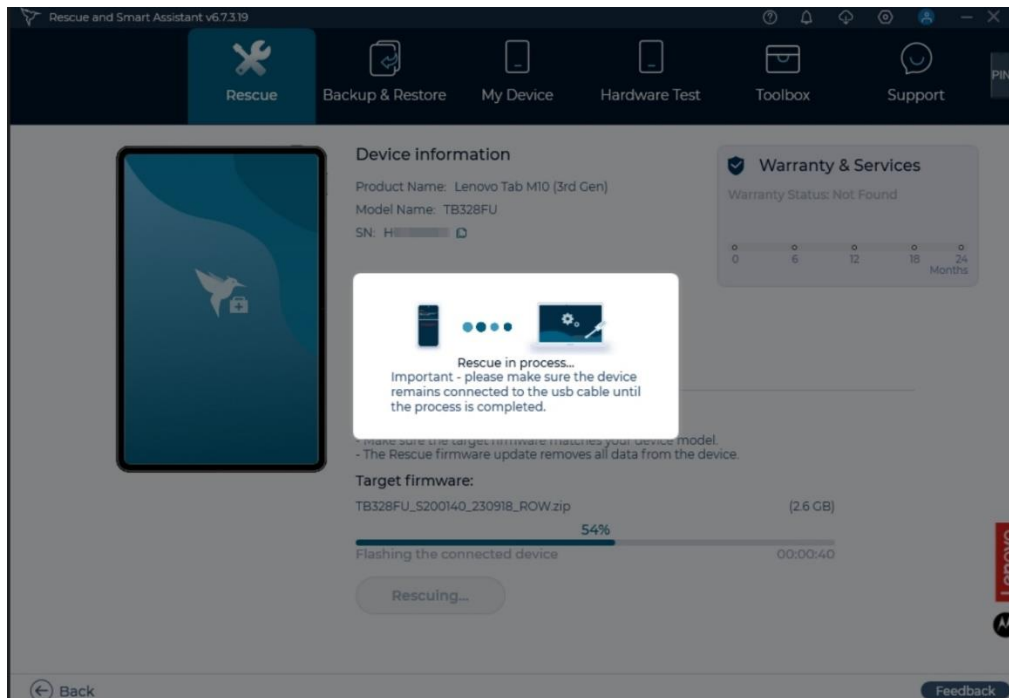
Enter the SN number of the device to be rescued in the input box. Click  to search, it will show the result of matching if it can match a firmware.



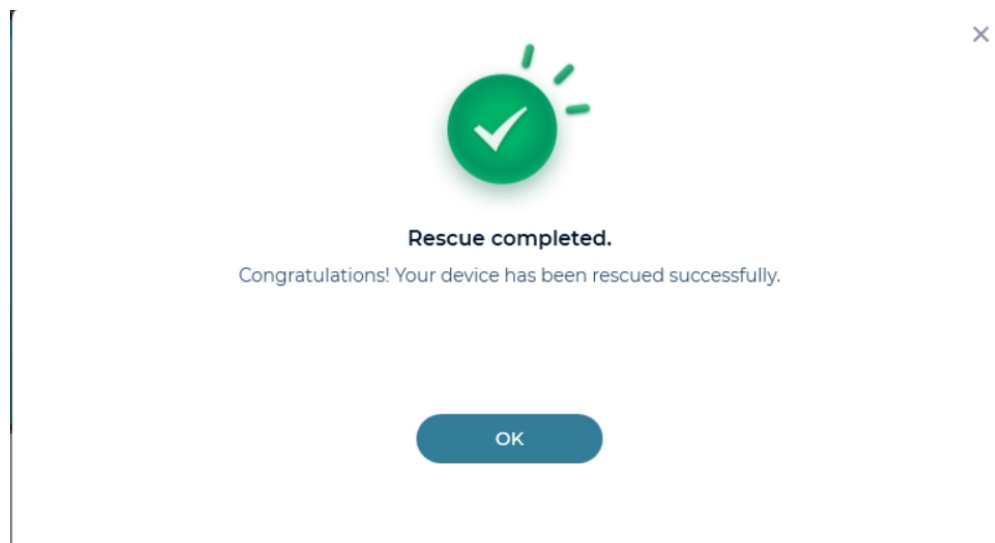
Click “OK” will enter the rescue page, click “Download” button to download the firmware.



Click the “Rescue” button, it will begin to rescue. The progress bar will appear.



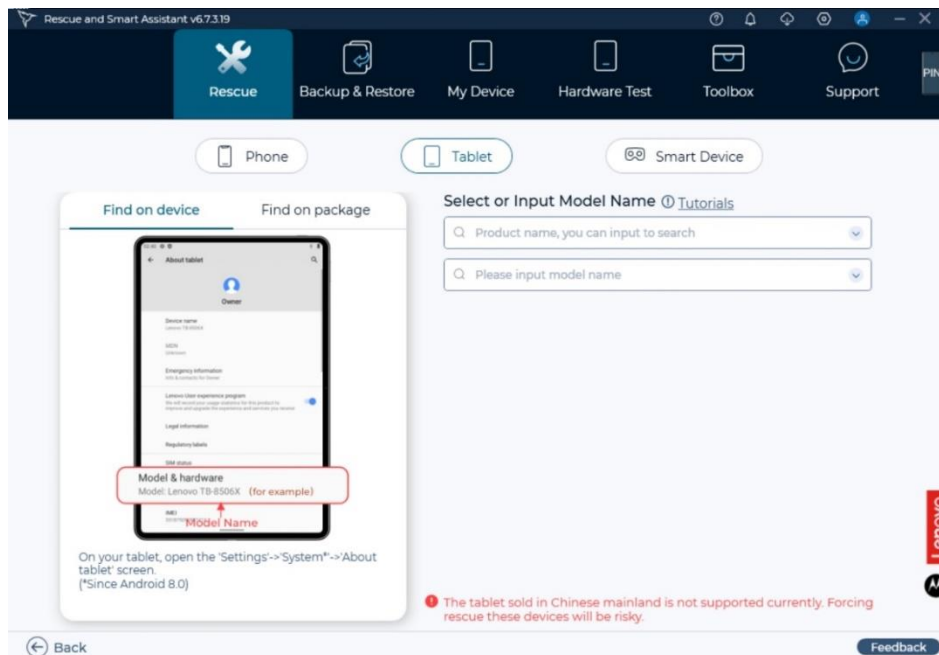
Once the rescue is completed, the following pop-up box will appear.



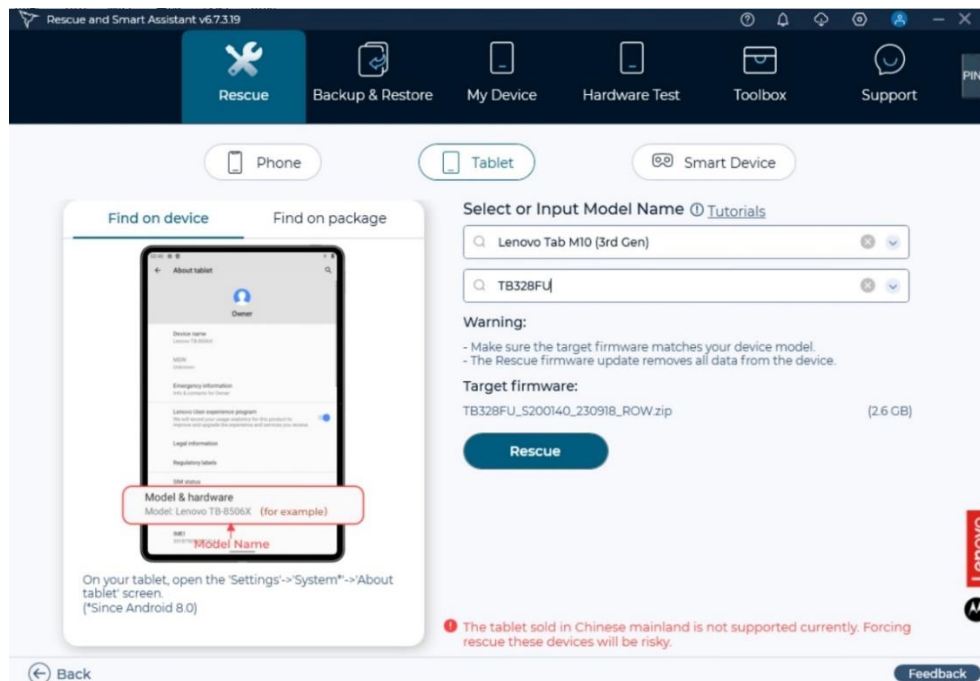
Here is a video for How to Rescue by SN match [//insert the SN Match video](#)

3. Rescue by manual selection

Click “TABLETS” button, it will show the SN detection page. Click “How to find SN?” --> “More” --> “Manual Selection”, it will enter tablet manual selection page.



Enter the model name of your tablet and download the firmware.



Click the Rescue button, the rescue process will start. Follow the tutorials to connect you tablet. Here is a video for How to rescue by Manual selection for reference. [//Insert the video of Manual selection.](#)

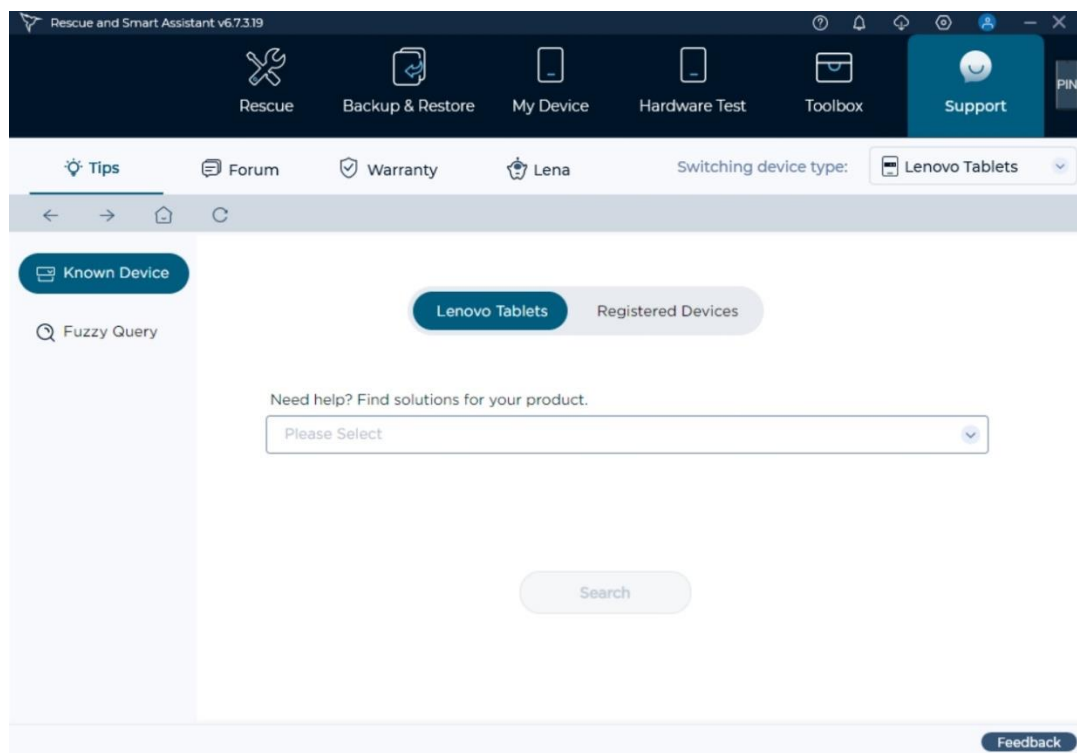
Support

There are five functions: Tips, Forum, Moli, Lena and Warranty.

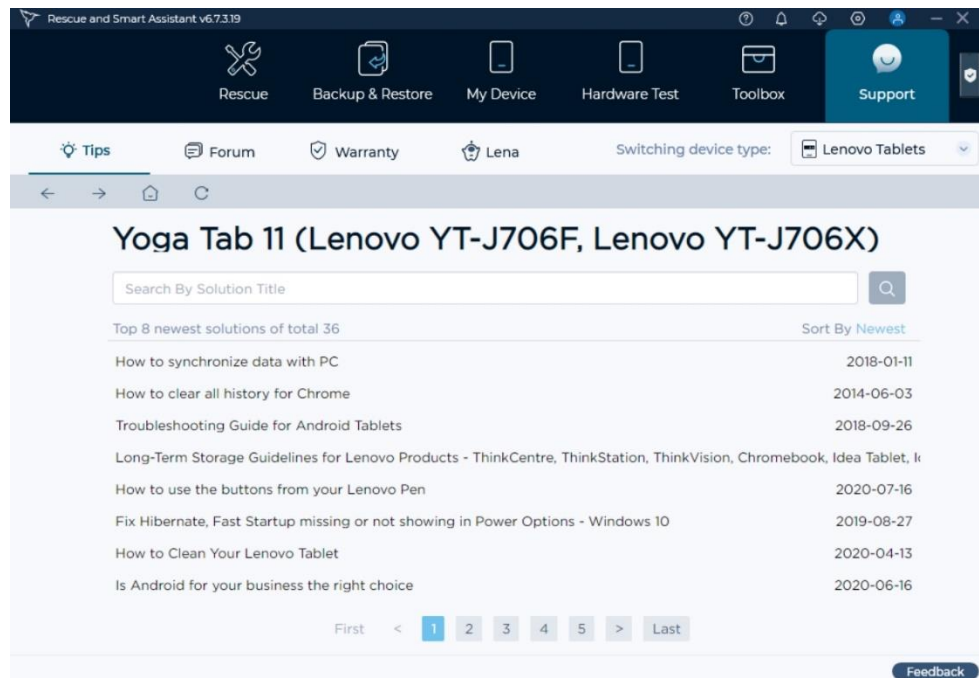
Tips

Tips Online shows How-tos & Solutions for Lenovo and Moto devices according to user's selection. It will display the Lenovo Phone, Lenovo Tablet, Moto Phones, and Registered Device buttons. There are two ways to find product's solution.

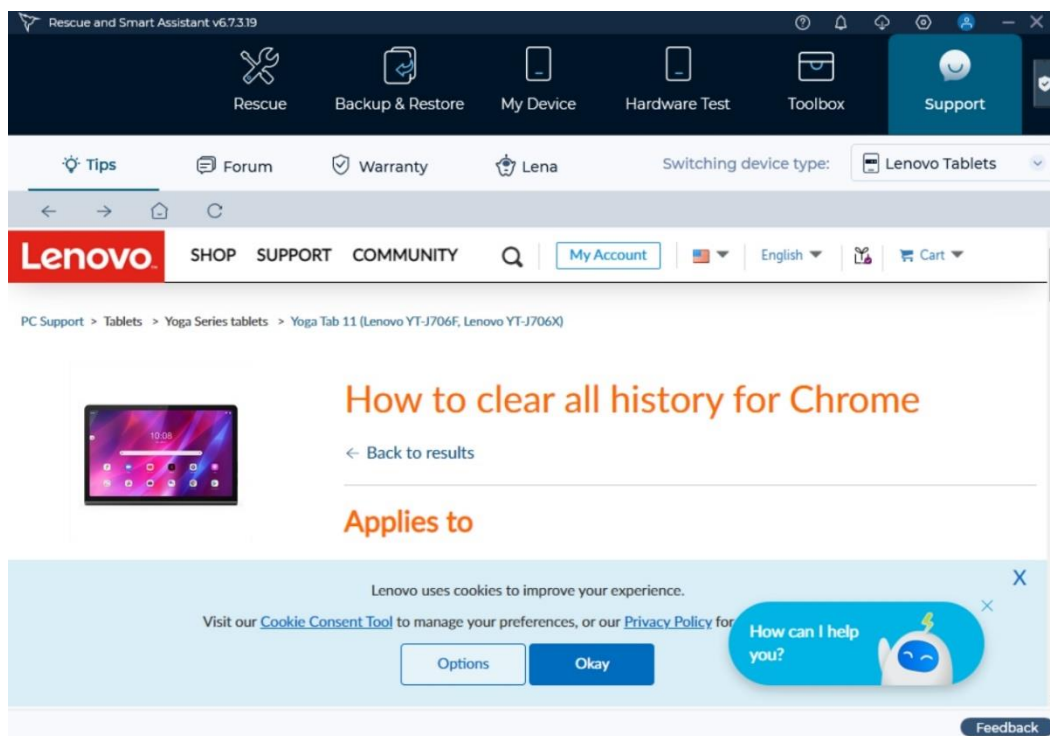
- Click one button and select option on drop-down list, it will enter the product solution view automatically. For example, Click Lenovo Phone button, and select series and sub-series on drop-down list.
- If you know your product name, you can input product name to search product's solution on Search By Product Name input box. And if you connect one device, the connecting device will be displayed on Search By Product Name input box.



After entering solution title and then clicking search icon, it will search the related solution information.

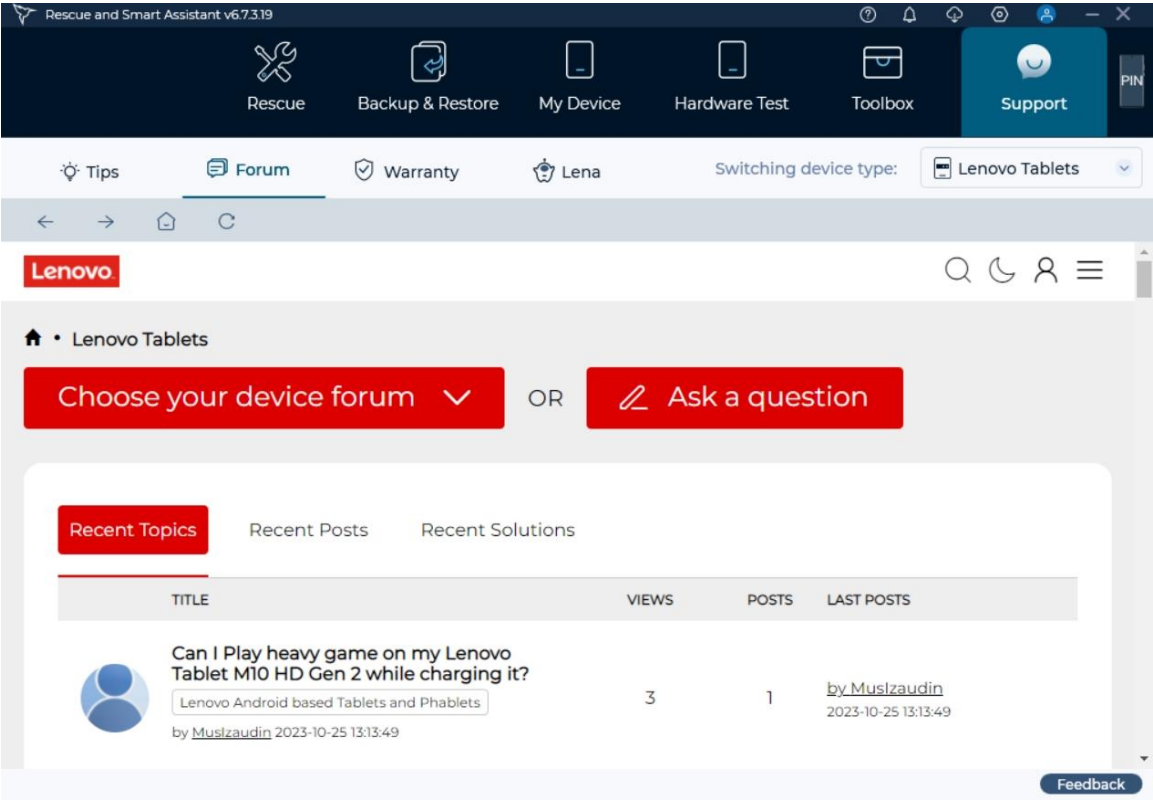


Click the link to view the solution details page.



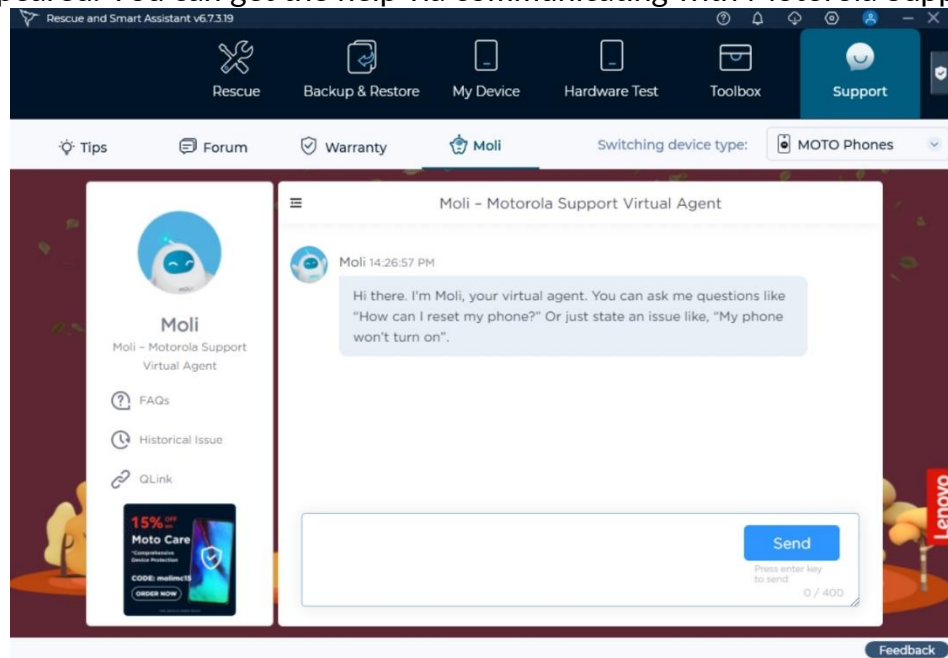
Forum

Once loading is complete, the following view will appear. There are three options: Lenovo Phones, Moto Phones, and Lenovo Tablets. Click the option to enter its forum website. For example, if you choose the Lenovo Tablets, the following page will display.



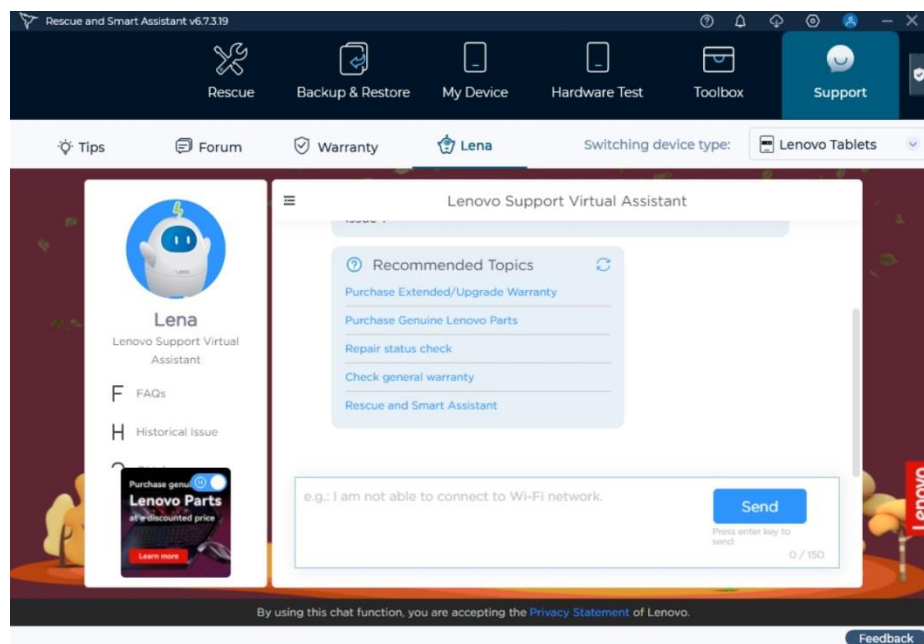
Moli

Moto Phones category is selected, once loading is completed, the following page will be appeared. You can get the help via communicating with Motorola Support.



Lena

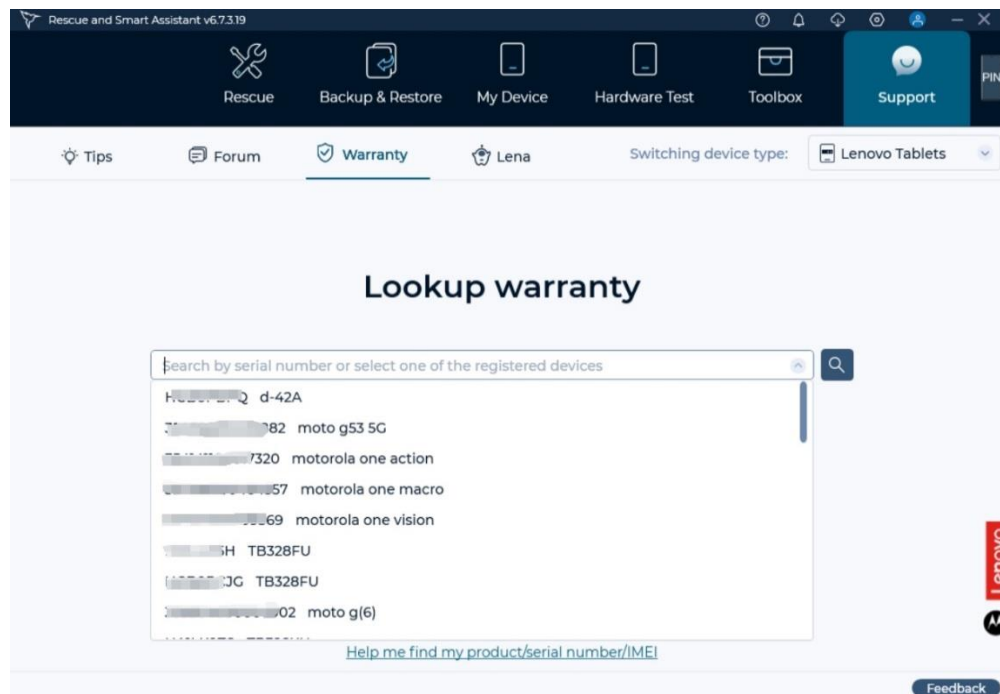
Lenovo Tablet category is selected, once loading is completed, the following page will be appeared. You can get the help via communicating with Lenovo Support



Warranty

Once loading is completed, the following page will be appeared. There are two ways to check your device's warranty:

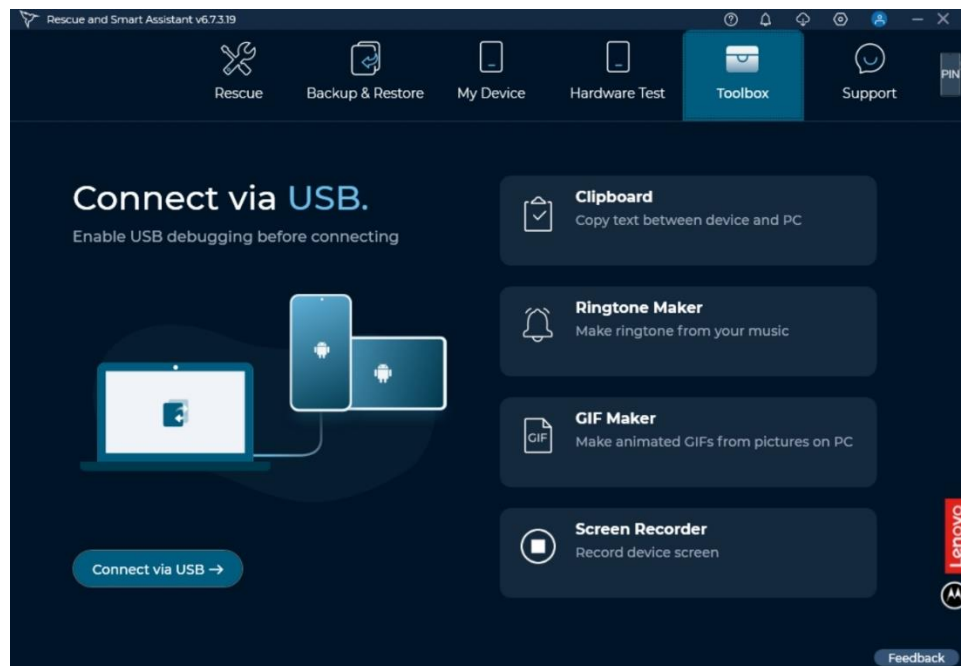
- The connecting devices and registered devices' SN will be listed on input box. Click the drop-down list, select one of SN, and then check  icon to check.
- Input SN/IMEI on input box and then click  icon to check.



After checking is successful, it will display the device's warranty information. If checking failed, it will display "No products match that query."

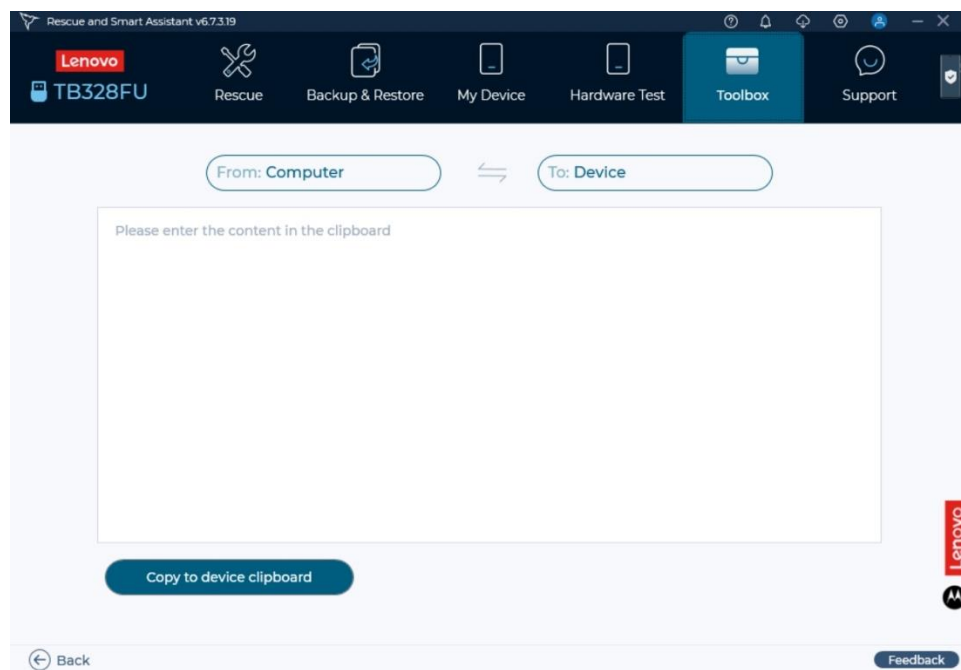
Toolbox

There are four functions: Clipboard, GIF Maker, Ringtone Maker, and Screen Recorder.



Clipboard

Copy text from/to phone to/from PC.



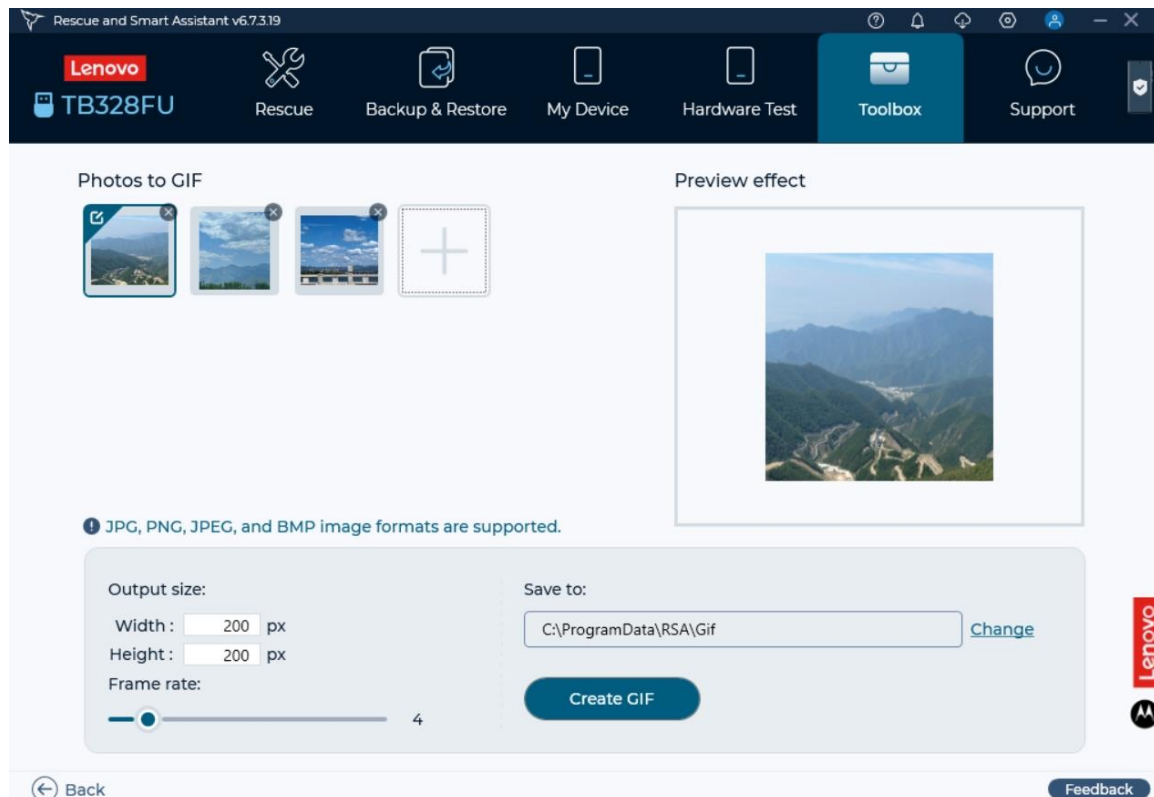
- **Clipboard to Device:** Enter Clipboard page, copy texts on PC, the text will paste to

clipboard on Clipboard page. Click Copy to device clipboard. The text will copy to device's clipboard.

- **Clipboard from Device:** Copy text on phone, and then click the Paste from the clipboard, the device's text will copy to Clipboard page.

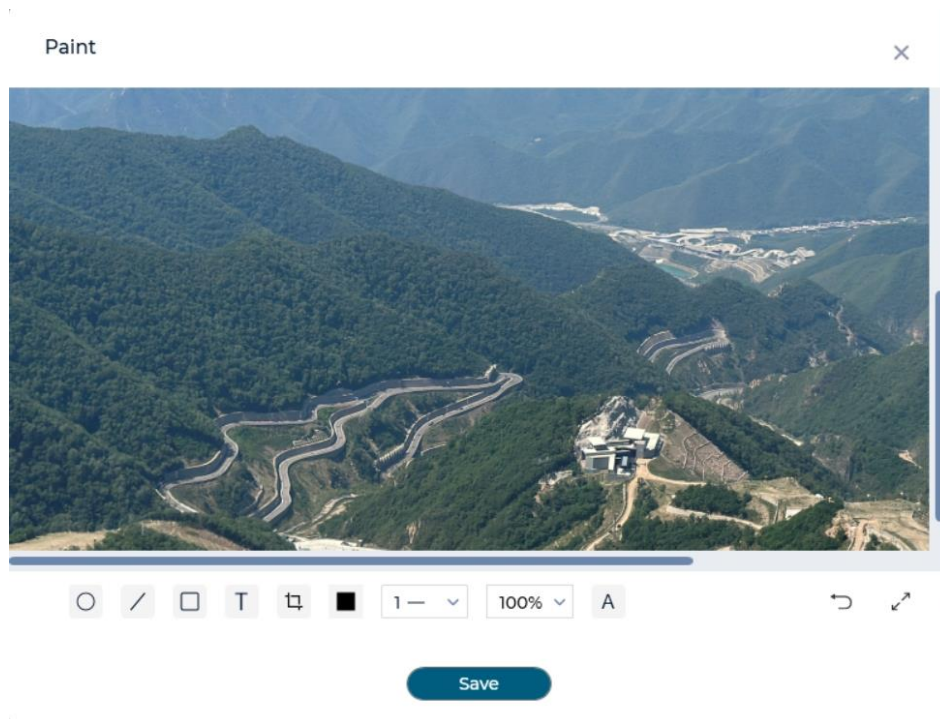
GIF Maker

How to make gifs from picture on PC.

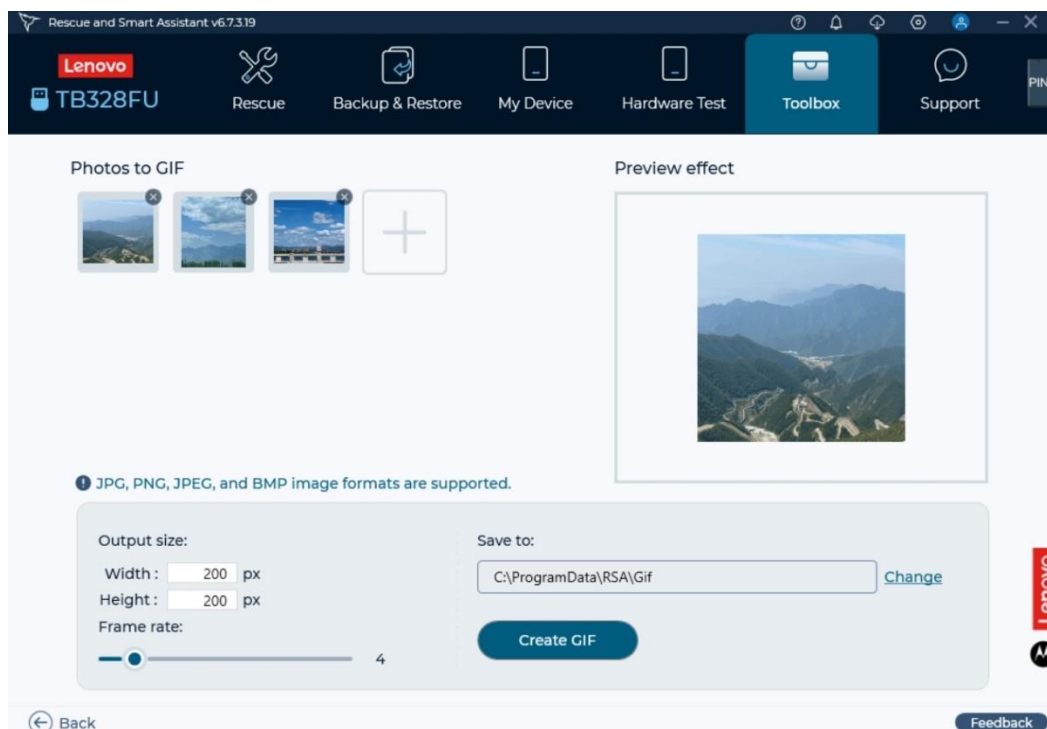


- Click  to add picture.
- Modify the **Output Size** to set the gif's size.
- Modify **Frame Rate** to set the gif's frame rate.
- Modify the **Save to** to set the gif's save path.
- Click **Create GIF** button after adding pictures, it will create gif. The created gif will save to **Save to** path.

Move the mouse over the picture. The **Delete** and **Edit** icon will appear. Click the **Delete** icon to delete the picture. Click the **Edit** icon to enter Edit view. Edit the picture and save it.

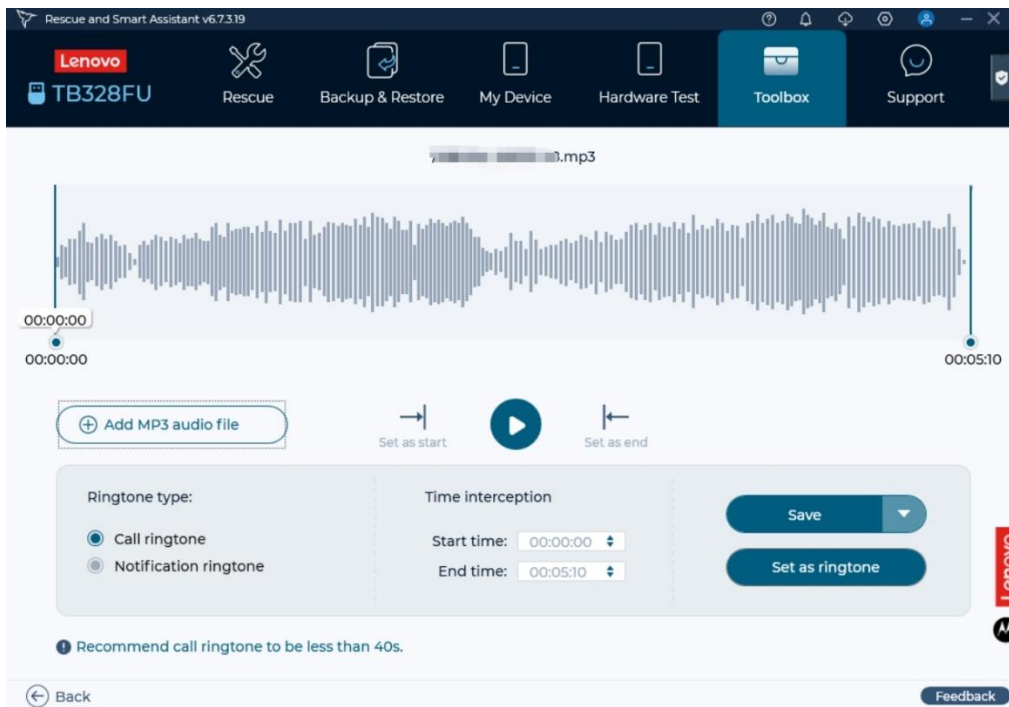


After add the pictures, move the mouse to the preview area, the play icon will appear. Click play button to preview the GIF.



Ringtone Maker

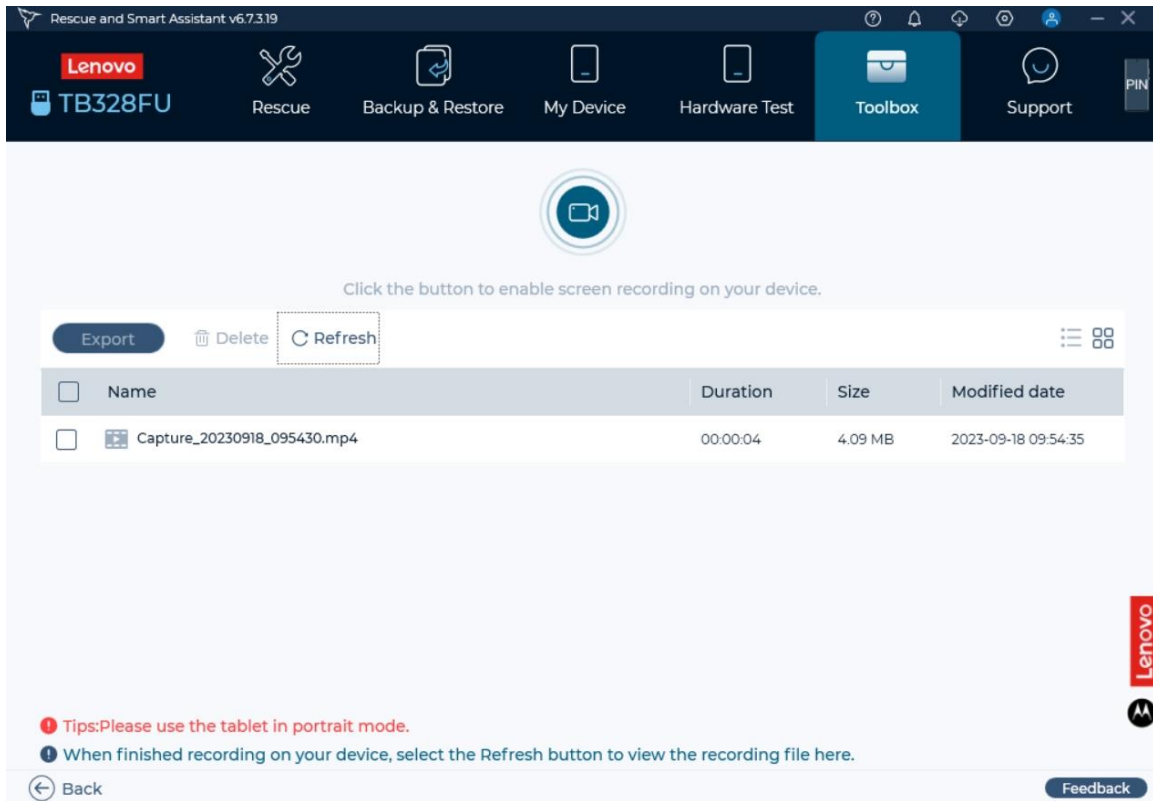
Use the following steps to make a ringtone from music.



- Click **Modify** button to select PC's music.
- Move the **start point** and **end point**, and then click **Play** icon to listen to the music.
- Click the **Call ringtone** or **Notification ringtone** to set ringtone type.
- Click **Fade in** and **Fade out** to set sound mode.
- Click **Set as Ringtone** to set the music as device ringtone (Call ringtone or Notification ringtone), or click **Save**, and save the music to PC or save the music to phone.

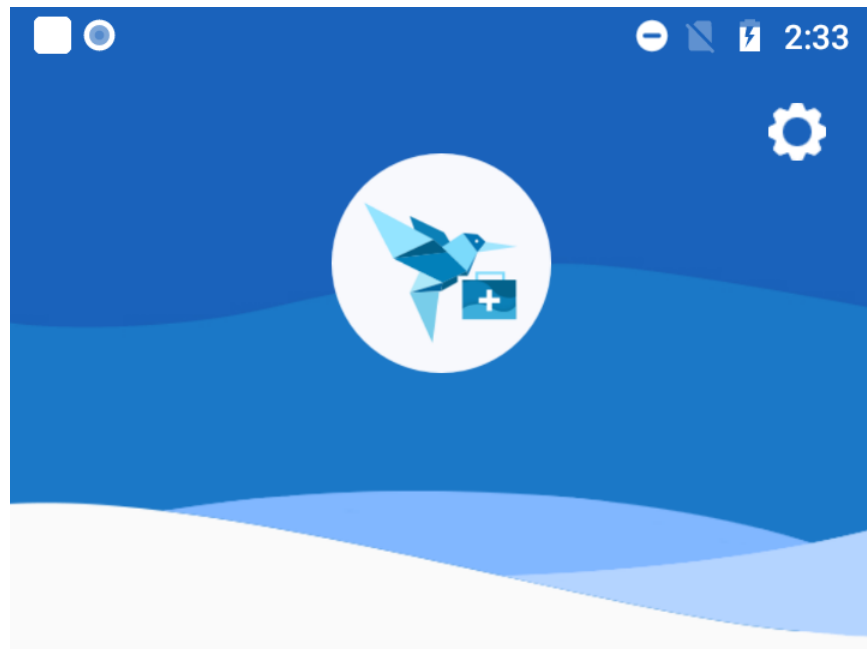
Screen Recorder

It supports to record screen of you phone as video. Connect device, the following view will appear. It supports two functions: Recording screen and Recording video management.



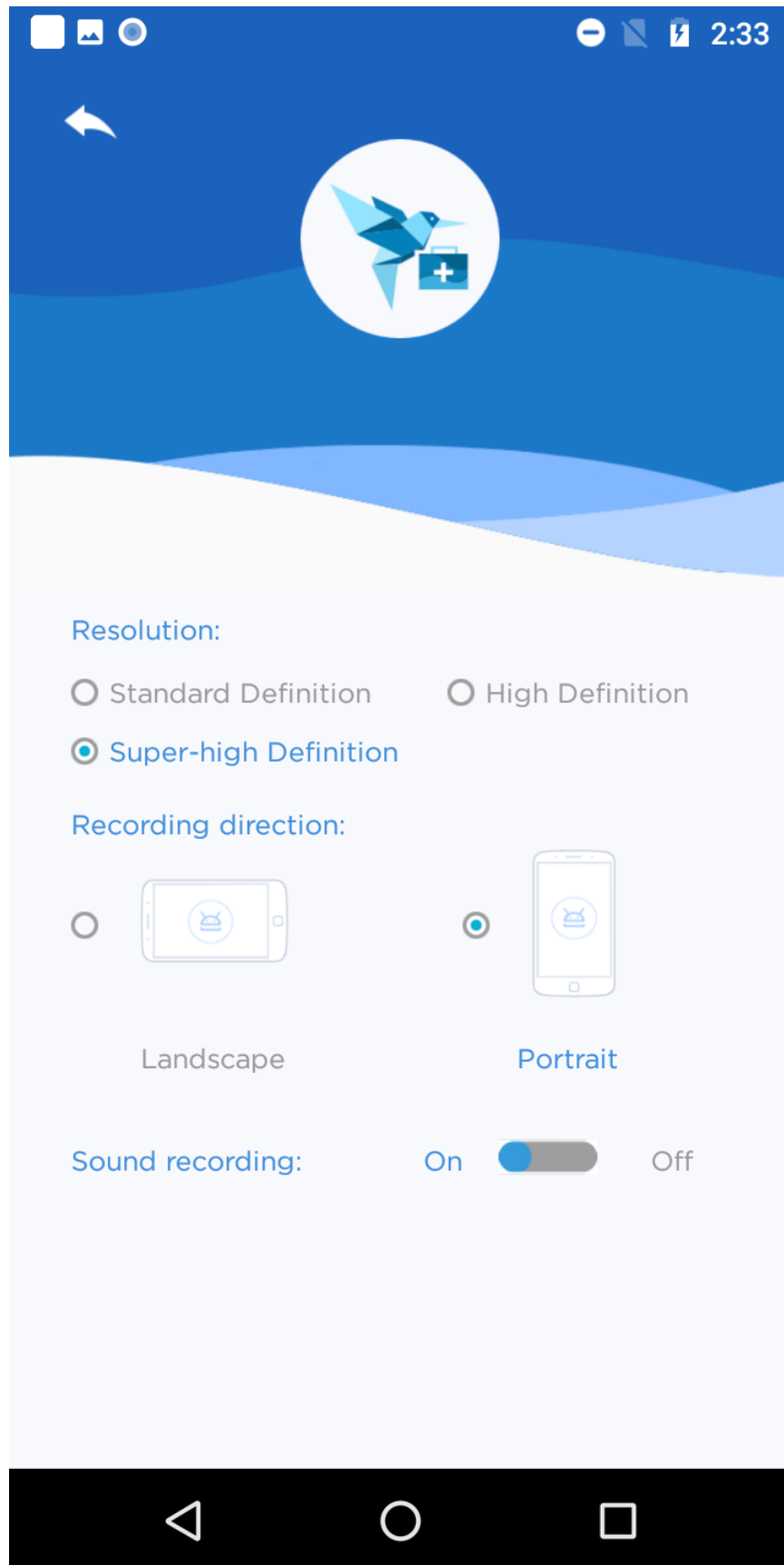
Record Screen:

Click the **Record** icon, the following view will appear on device. Click **Setting** icon at right top of view, it will enter setting view. User can set Resolution, recording direction, and sound recording.



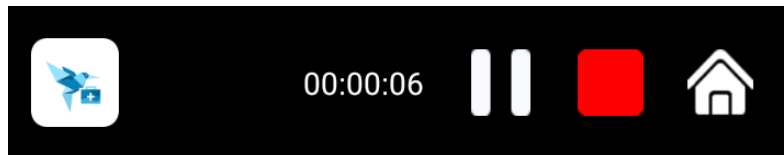
00:00:00



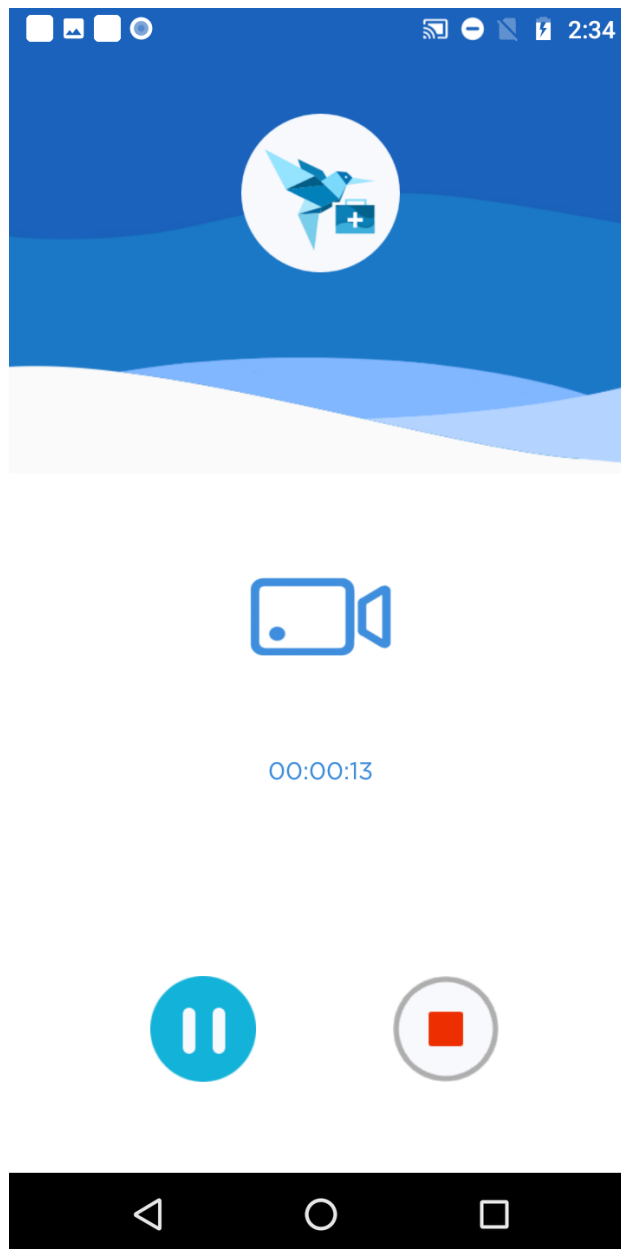


Click **Record** button on device, it begins to record screen. User can pause or stop recording the screen using the following methods:

Slide down the notification bar.



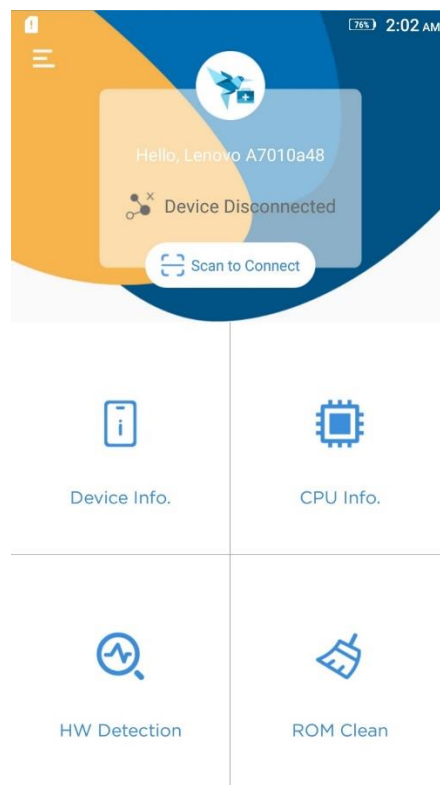
Click device's task key, and click Mobile Assistant app task.



Video Management:

- Export: User can select recording video, and then click **Export** and select export path. The selected video will be exported to export path.
- Delete: User can select recording video, then click **Delete** to delete selected video.
- Refresh: After recording video or delete recording video on device, user can click **Refresh** and load the latest video.
- View: It supports two view modes: Grid and List. User can click  icon to switch to list mode, click  icon to switch to grid mode.
- Select All: User can select all recording videos.
- Sort: Video supports sort function on list mode. User can sort them by Name, Duration, Size, or Modified Date.

Mobile-client-end - Mobile Assistant interface illustration



- Menu
- Connection status indicator(Disconnected, Connecting, USB/Wi-Fi connected)
- Scan button(Scan QR to connect to PC Rescue and Smart Assistant (Lenovo Moto Smart Assistant))

- Device Information
- CPU Info.
- HW Detection
- ROM Clean

Feedback

Click Feedback on right bottom, you can enter feedback page. Submit your feedback, your feedback will be returned to Lenovo.

Feedback for Rescue and Smart Assistant

Email:

The following questions will help us to understand your issue and solve your pain point.

Which functions are you using?

☒ Rescue
 ☐ Other

Did you rescue your device successfully?

☐ Yes
 ☒ No

Can you match an appropriate firmware?

☐ Yes
 ☒ No

What's your firmware match method?

☐ Input IMEI/SN
☐ Manual select model name
☐ Connect your device via fastboot mode
☐ Connect your device via USB Debugging mode
☐ Connect your device via Wi-Fi

Attach device information

Model Name:

Comments:

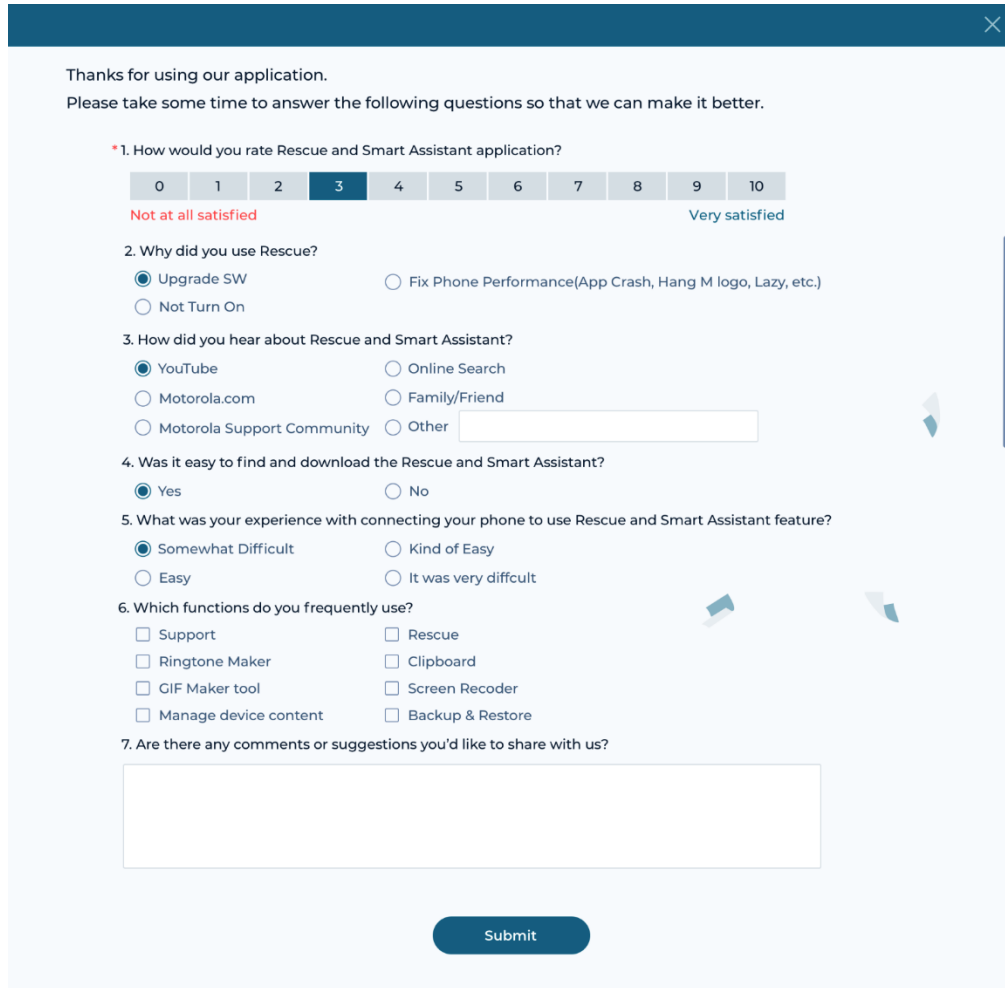
Submit

Lenovo Privacy Policy (www.lenovo.com/privacy/)

Survey

You can take some time to fill the Rescue and Smart Assistant (Lenovo Moto Smart Assistant) survey if showing, so that we can make Rescue and Smart Assistant better. We are glad to receive your feedback.

Example survey :



Thanks for using our application.
Please take some time to answer the following questions so that we can make it better.

*1. How would you rate Rescue and Smart Assistant application?

0 1 2 3 4 5 6 7 8 9 10
Not at all satisfied Very satisfied

2. Why did you use Rescue?

☒ Upgrade SW ☐ Fix Phone Performance(App Crash, Hang M logo, Lazy, etc.)
☐ Not Turn On

3. How did you hear about Rescue and Smart Assistant?

☒ YouTube ☐ Online Search
☐ Motorola.com ☐ Family/Friend
☐ Motorola Support Community ☐ Other

4. Was it easy to find and download the Rescue and Smart Assistant?

☒ Yes ☐ No

5. What was your experience with connecting your phone to use Rescue and Smart Assistant feature?

☒ Somewhat Difficult ☐ Kind of Easy
☐ Easy ☐ It was very difficult

6. Which functions do you frequently use?

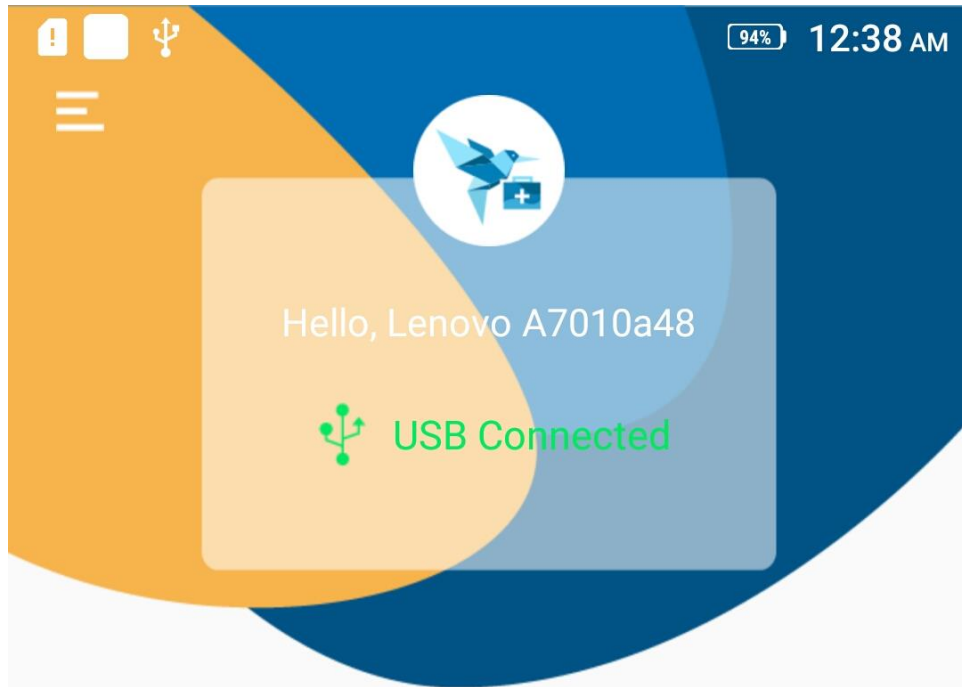
☐ Support ☐ Rescue
☐ Ringtone Maker ☐ Clipboard
☐ GIF Maker tool ☐ Screen Recoder
☐ Manage device content ☐ Backup & Restore

7. Are there any comments or suggestions you'd like to share with us?

Submit

Connect with USB

- Connect device with USB cable, enable USB debug setting in your phone
- Rescue and Smart Assistant (Lenovo Moto Smart Assistant) client will install Mobile Assistant App on device automatically;
- After installation, keep the USB connection, and Rescue and Smart Assistant (Lenovo Moto Smart Assistant) client will connect with Mobile Assistant App automatically.



Device Info.



CPU Info.



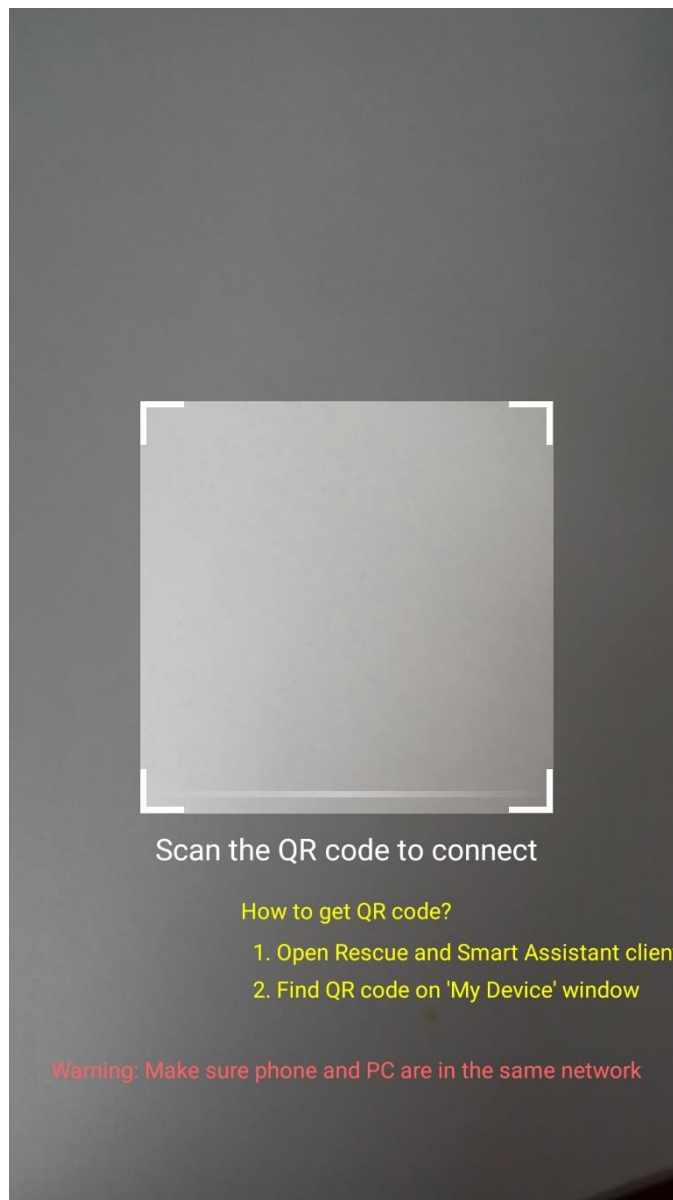
HW Detection

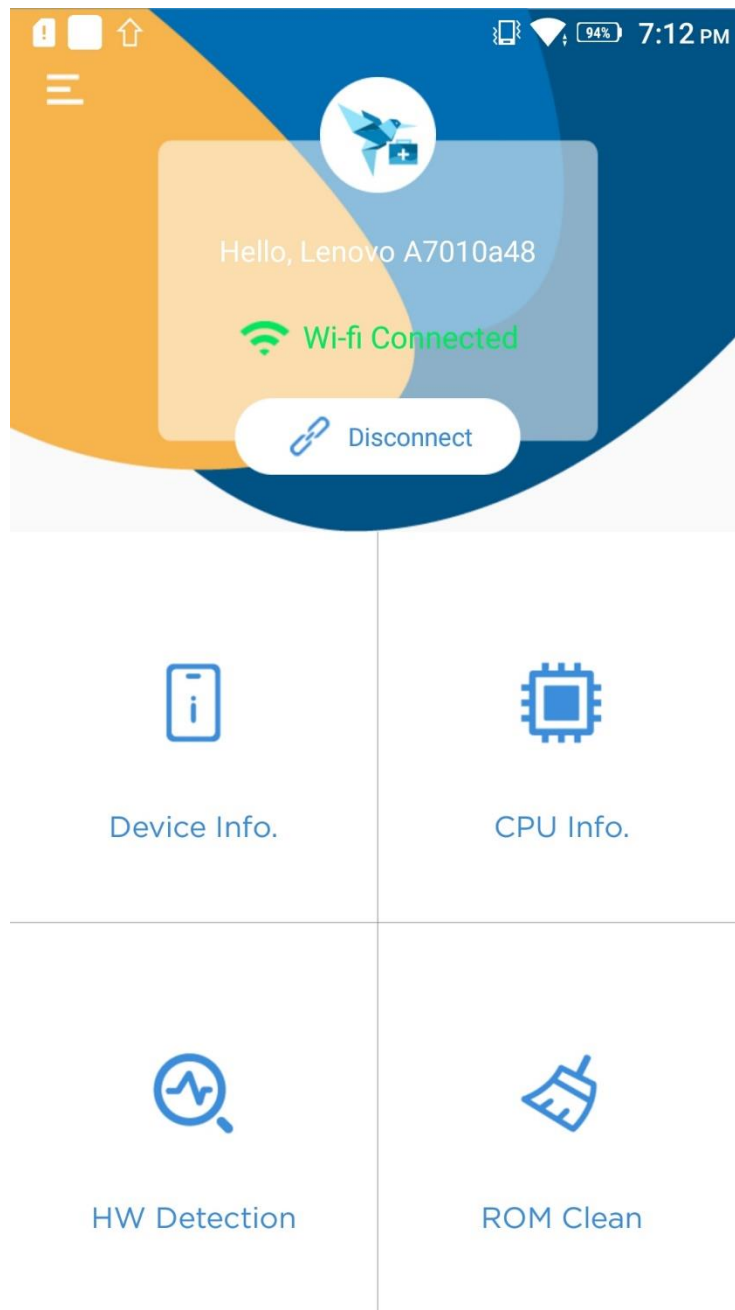


ROM Clean

Connect with Wi-Fi

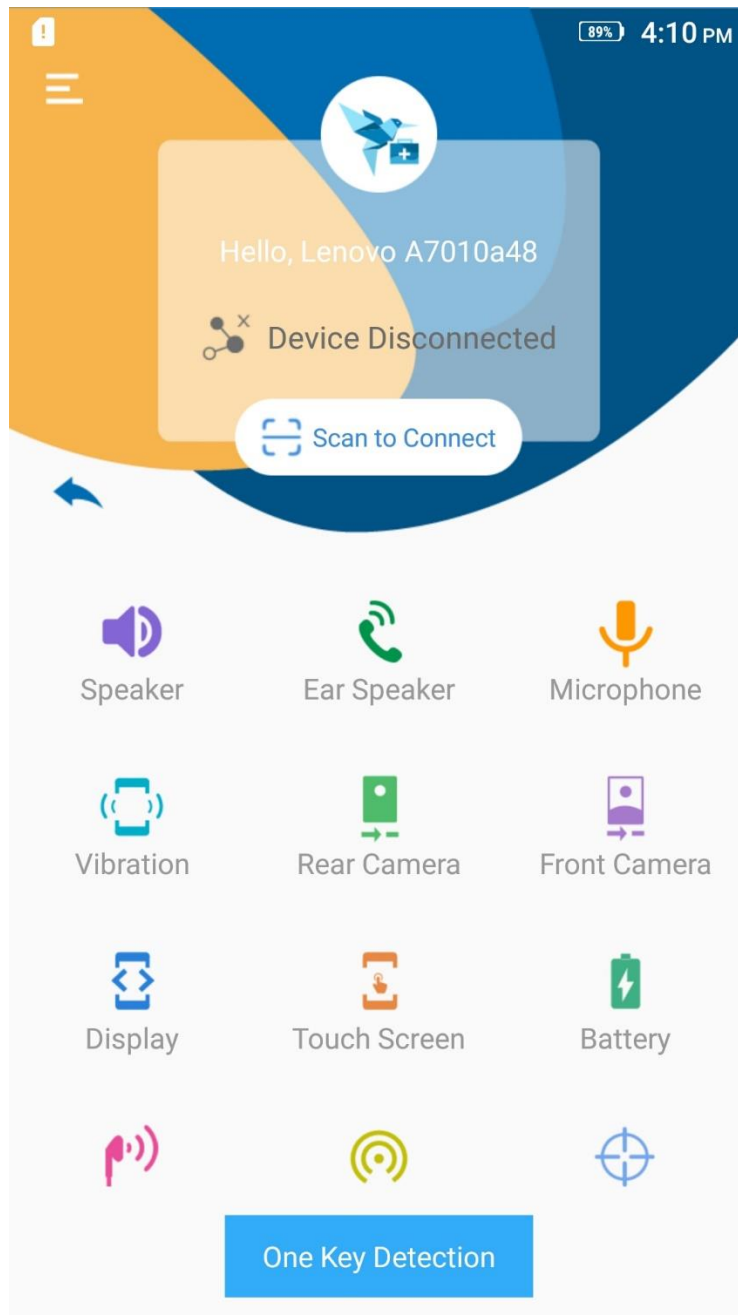
- Connect device with USB cable, Rescue and Smart Assistant (Lenovo Moto Smart Assistant) client will install Mobile Assistant App on device automatically.
- When you can see Mobile Assistant App on mobile device, disconnect USB cable.
- Touch **Scan** button at bottom or **Connect** button at top-right corner on Mobile Assistant App to scan the QR code displayed on Rescue and Smart Assistant (Lenovo Moto Smart Assistant) PC client



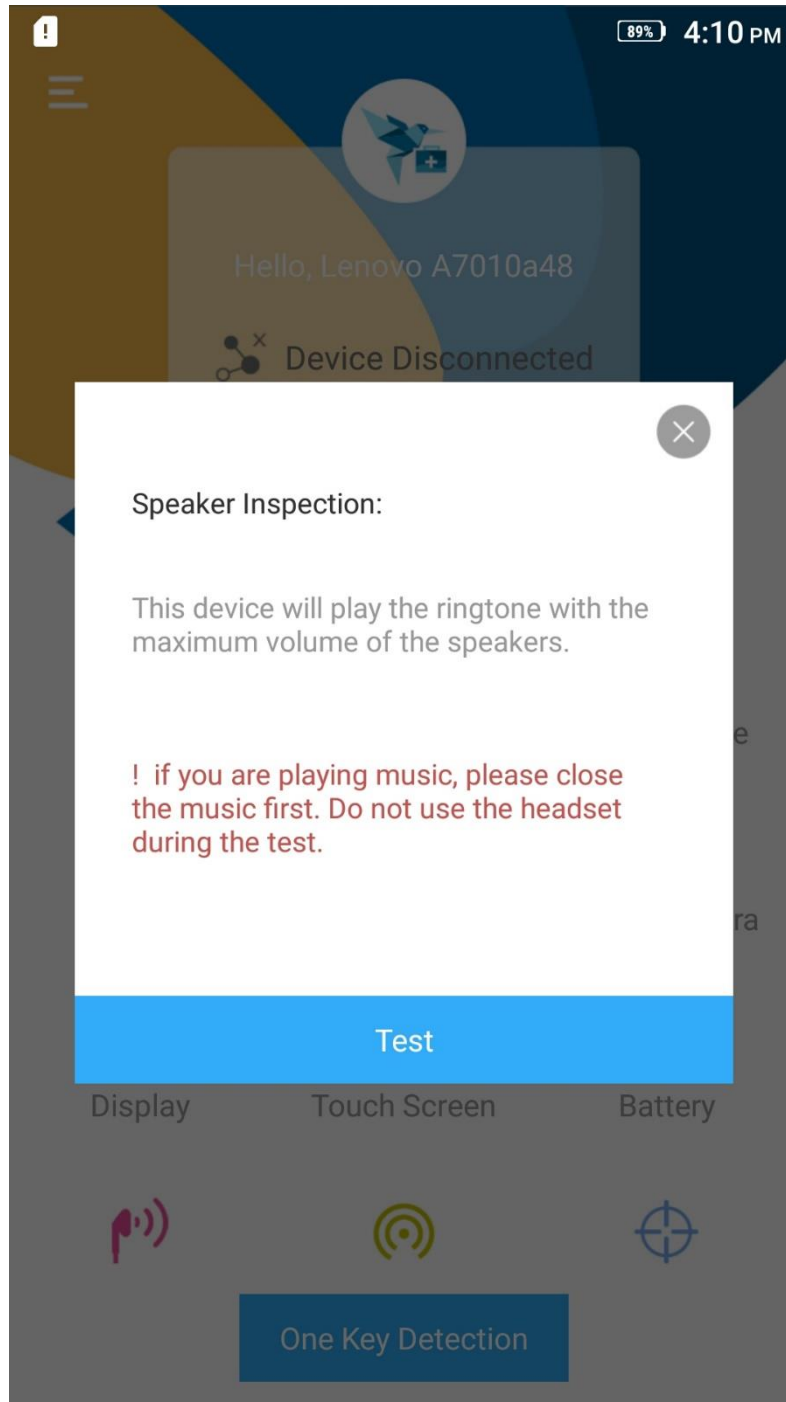


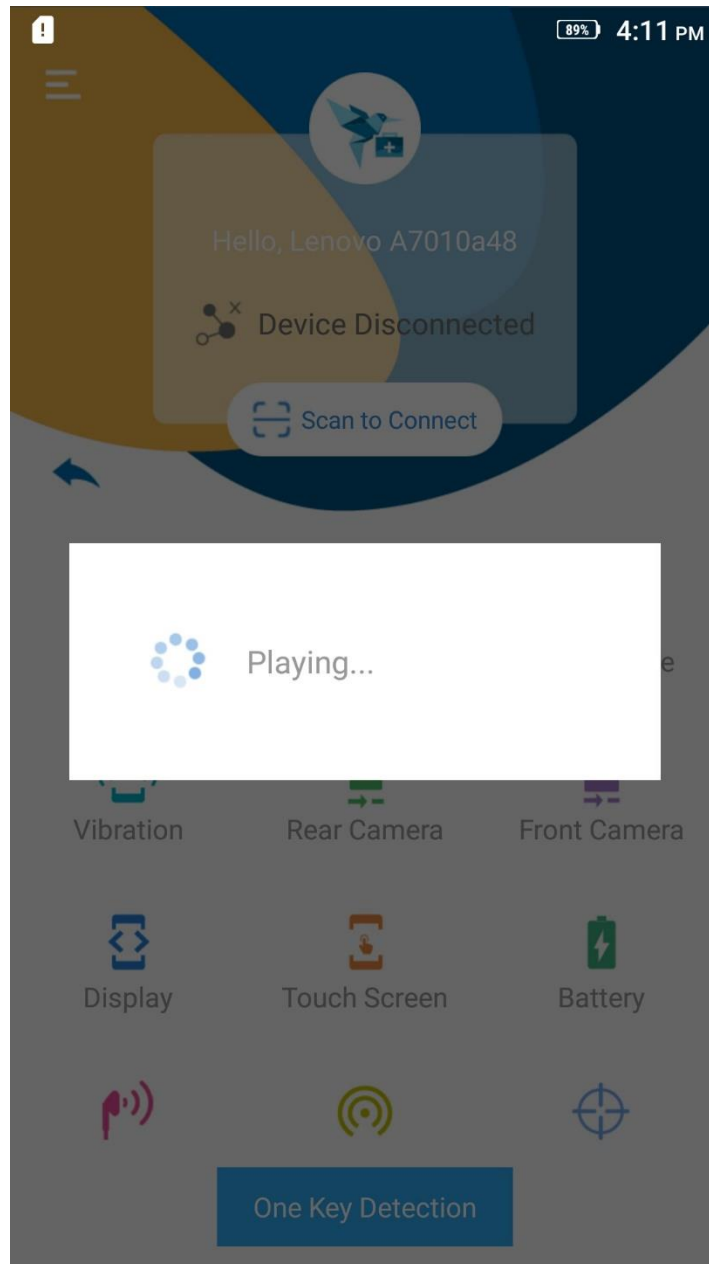
HW Detection

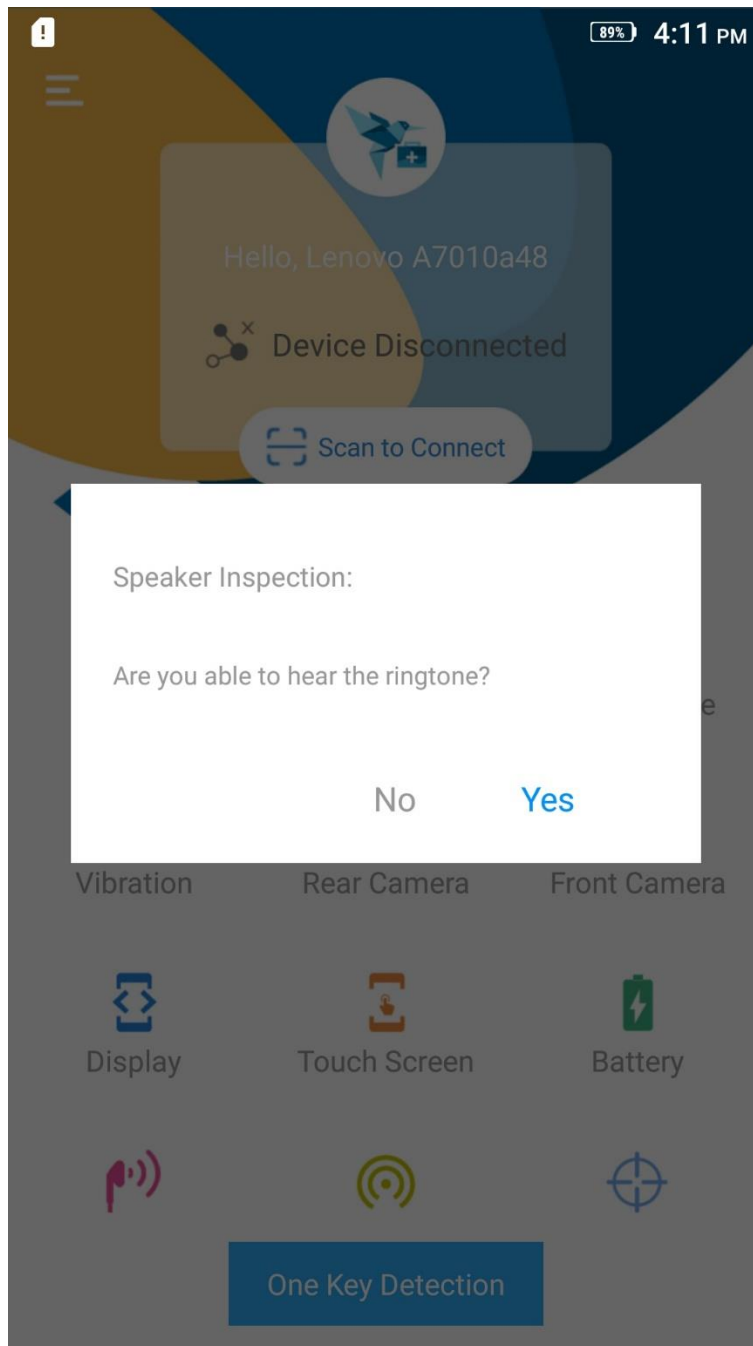
1. Hardware detection will help to check phone hardware working status.
2. Click HW Detection to enter the Hardware Detection view.
3. Click an item's icon to begin to hardware detection for this device.



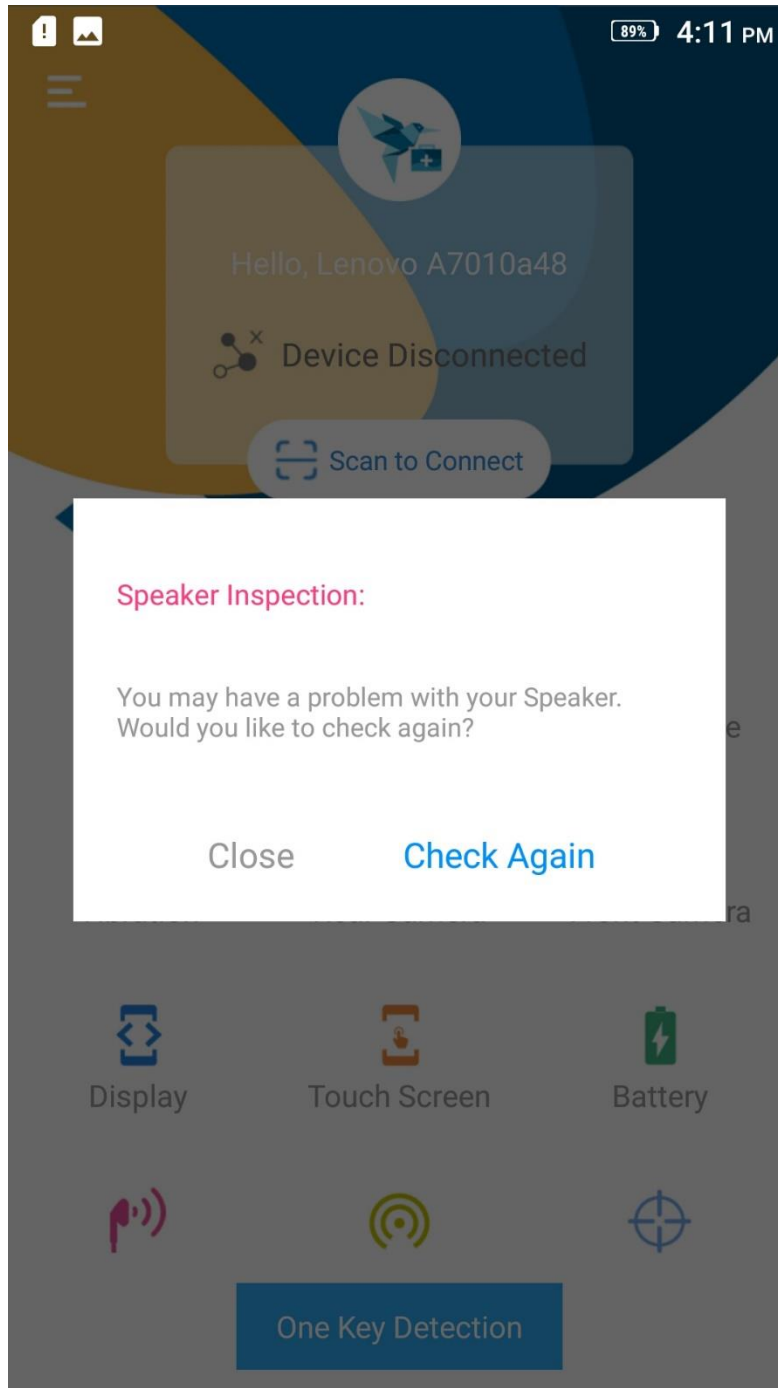
For example: Click Speaker icon, the Test view will appear, then click Test button, it begins to test. Test finish, the test result view will appear:

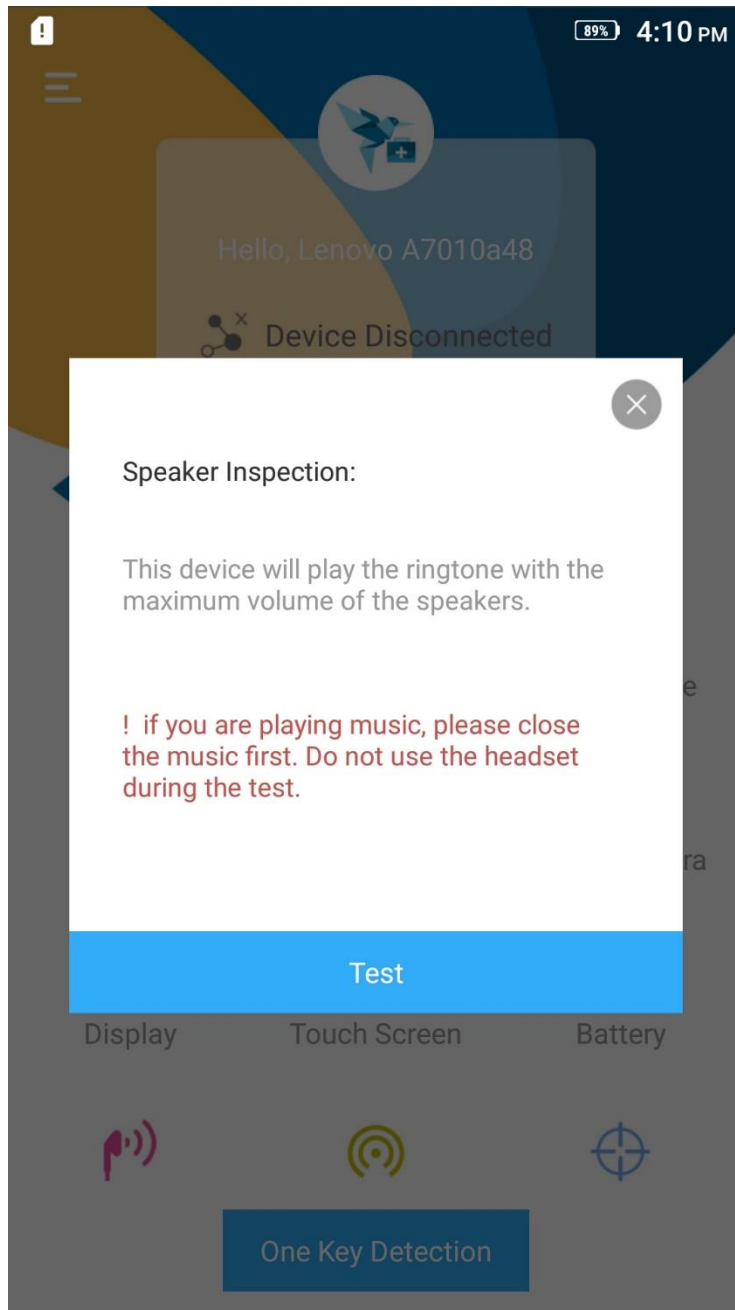






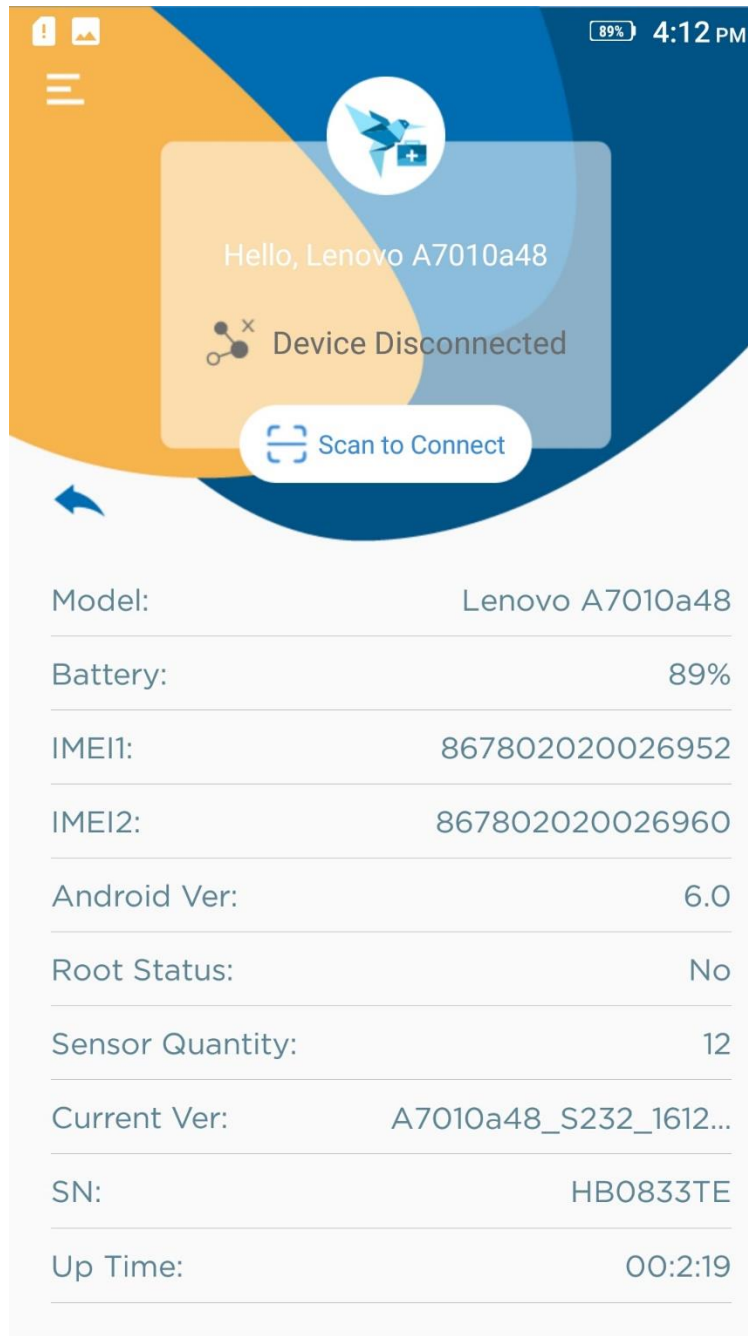
Click **Yes**, the hardware detection finishes. Click **No**, and then click **Check again**, it will test again.





Device Info.

Displays the device's Model Name, Battery, IMEI1, IMEI2, Android Version, Root Status, Sensor Quantity, Serial Number, Current Version, SN and Up Time.



89% 4:12 PM

Hello, Lenovo A7010a48

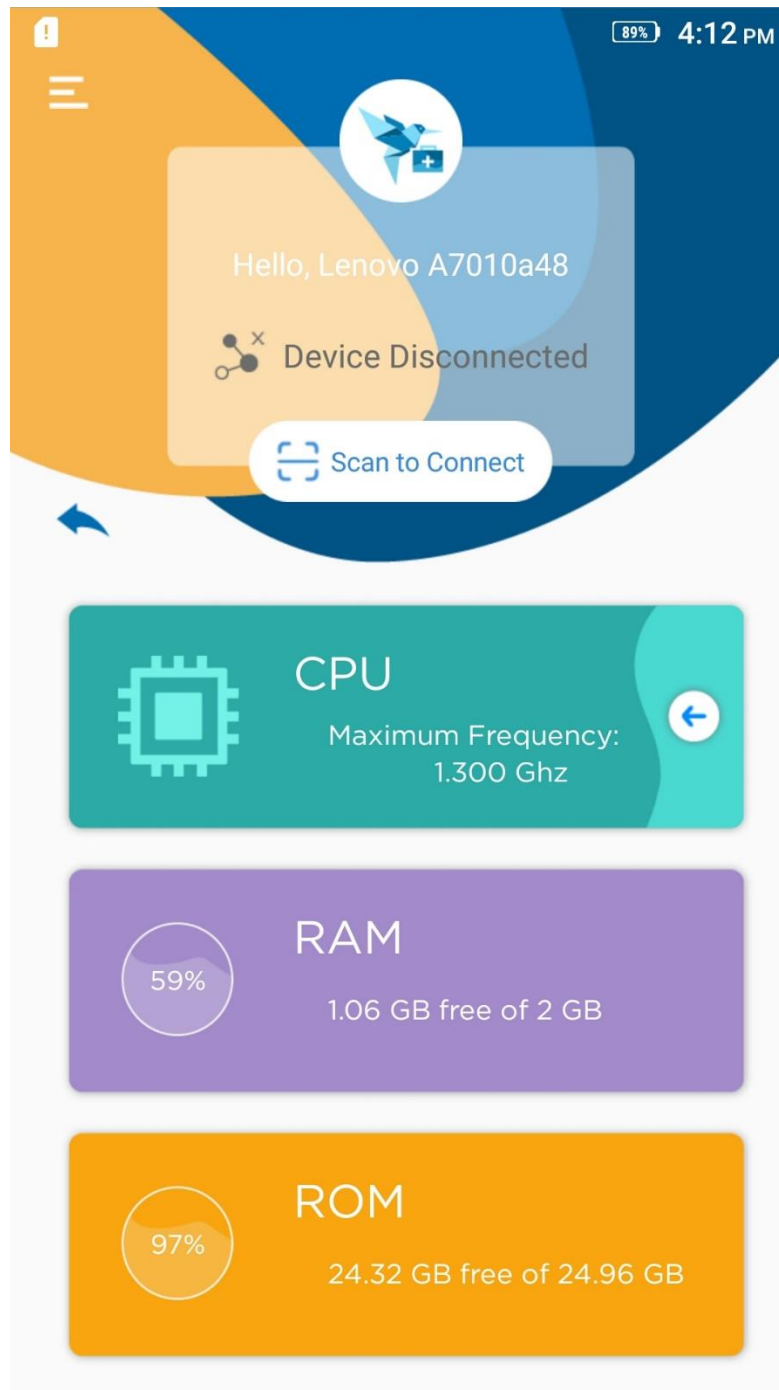
Device Disconnected

Scan to Connect

Model:	Lenovo A7010a48
Battery:	89%
IMEI1:	867802020026952
IMEI2:	867802020026960
Android Ver:	6.0
Root Status:	No
Sensor Quantity:	12
Current Ver:	A7010a48_S232_1612...
SN:	HB0833TE
Up Time:	00:2:19

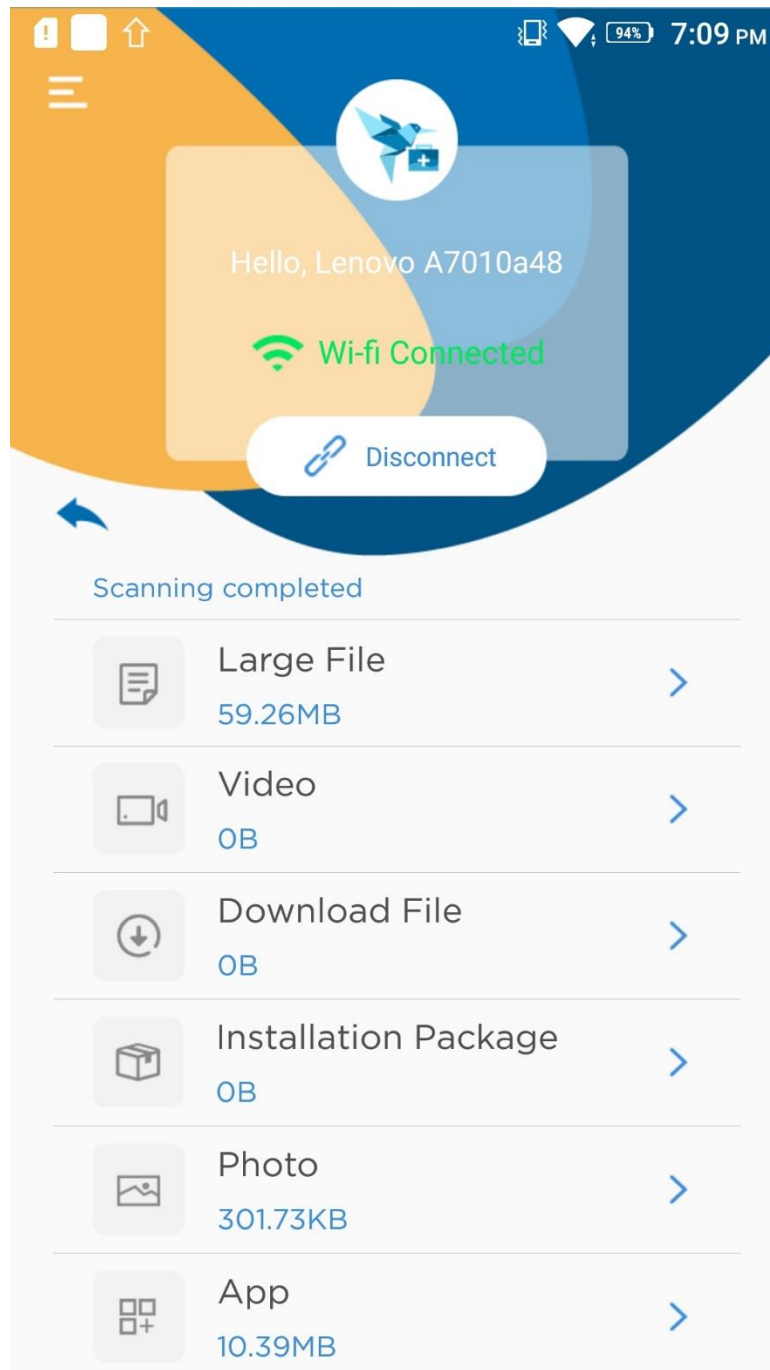
CPU Info.

Displays the device's CPU, RAM, and ROM information.

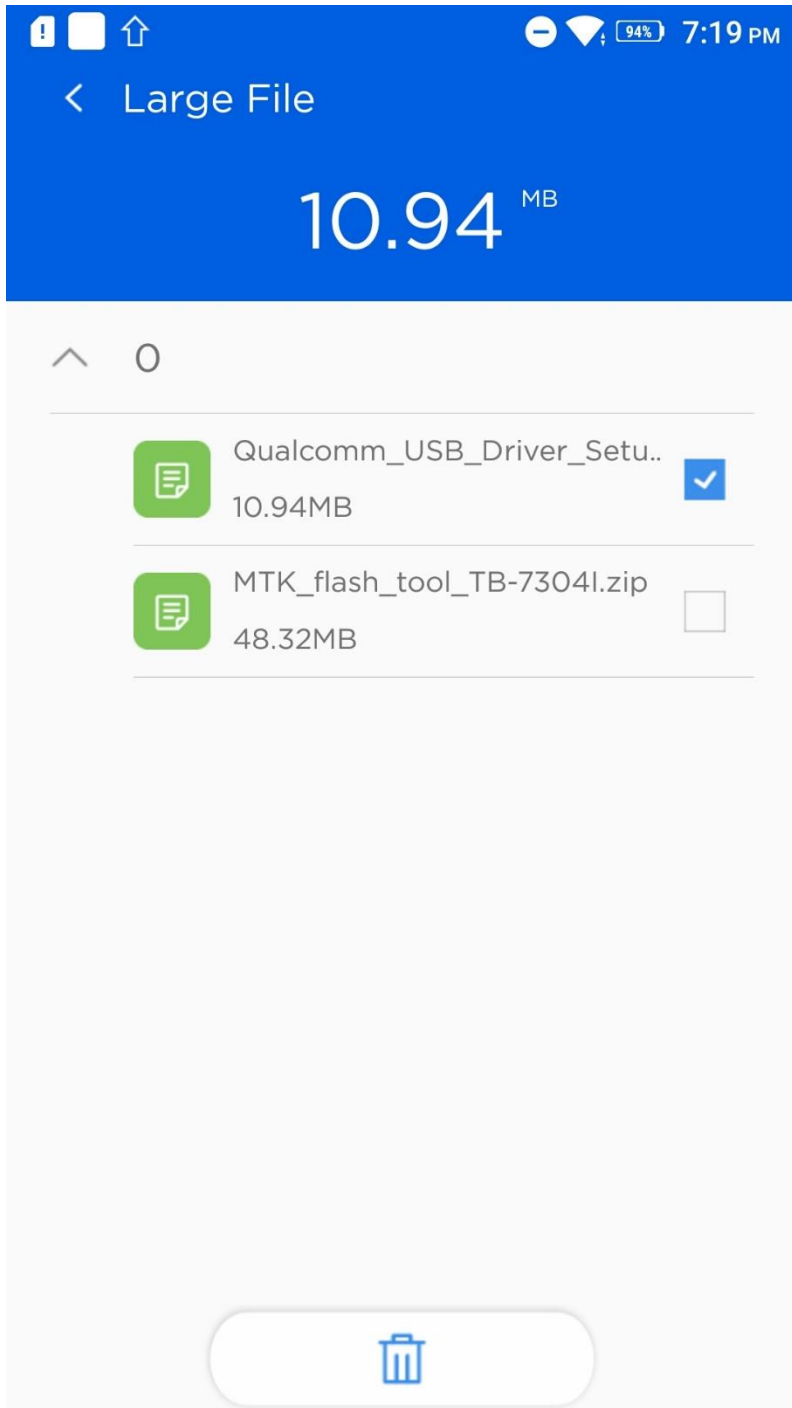


ROM Clean

Supports cleaning Large Files (more than 10MB), Video, Download File, Installation Package, Photo, and App.



Click an item to begin to cleaning files. For example: Click Large File, it will list more than 10MB file. Select the file and click delete button, the selected file will be deleted.



7. Lenovo APP

You can download this APP by scan the QR code.



Also, can be downloaded at

<https://pcsupport.lenovo.com/us/en/lenovoapp>

Instruction of the APP:



8. Product Disassembly

8.1 Repair Tool

Tool Name	Picture	Tool Name	Picture
SIM Card Needle		ESD Bracelet	
Heating Platform or Heat Gun		Guitar Pick	
Suction Cup		Screwdriver	
Pry Bar		Surgical Knife	
Tweezers			

8.2 Common Repair Tips

There are some common repair videos for your reference, you can download and view them if needed.

1. How to assembly adhesive (such as TP module adhesive)

<https://osd.lenovo.com:443/kb/share/getShareFileListById?shareId=57315>

2. How to remove adhesive (such as TP module adhesive)

<https://osd.lenovo.com:443/kb/share/getShareFileListById?shareId=57316>

3. How to remove pulling battery adhesive

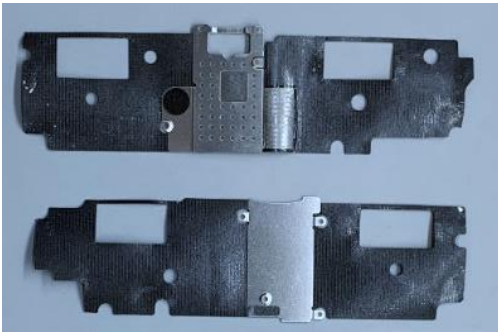
<https://osd.lenovo.com:443/kb/share/getShareFileListById?shareId=57317>

8.3 Key Tips

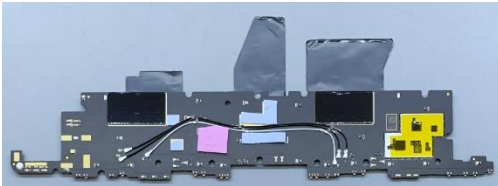
- The Black Graphite should be removed in order to remove the NFC FPC. The Black Graphite and NFC FPC are an assembly. They are also part of the Rear Cover PN.



- 2 reusable Speaker Foam are removed together with the steel beneath the foam. The 2 Speaker Foams, Type-C Steel and SIM/SD Steel are 4 separate PN in SBOM.

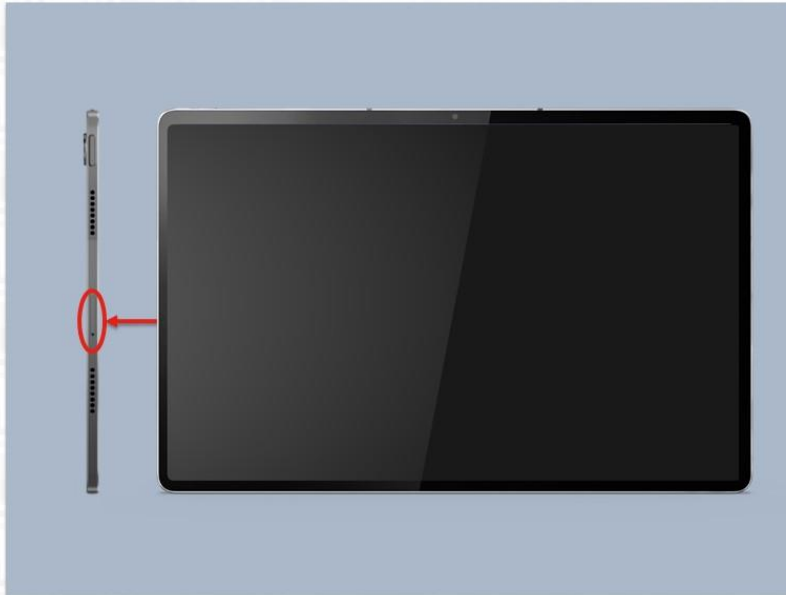


- The Graphite and Thermal Pad on the Mainboard are part of the Mainboard PN and should be removed together.



8.4 Disassembly SOP

+ Disassembly



Lenovo T&SD WW SVC TS&PE

- Turn off the device and wear ESD Bracelet before disassembly.
- Remove the SIM Card tray using a SIM Needle.
- Heat the TPLCM using Heating platform.

Lenovo

1

+ Disassembly



Lenovo T&SD WW SVC TS&PE

- Preheat the heating platform* to 75°C, then put the device on the heating platform with the screen facing down.
- Heat for 5 minutes.

Lenovo

2

+ Disassembly



Lenovo T&SD WW SVC TS&PE

Option: Heat Gun

- Place the tablet on a working table with the screen facing up.
- Adjust the heat gun to 140°C at mid-level air speed.
- Preheat for around 30 seconds before applying on device.
- Heat the four sides evenly for 30 seconds each side, at 3 cm distance with 30 degree angle

Lenovo

+ Disassembly



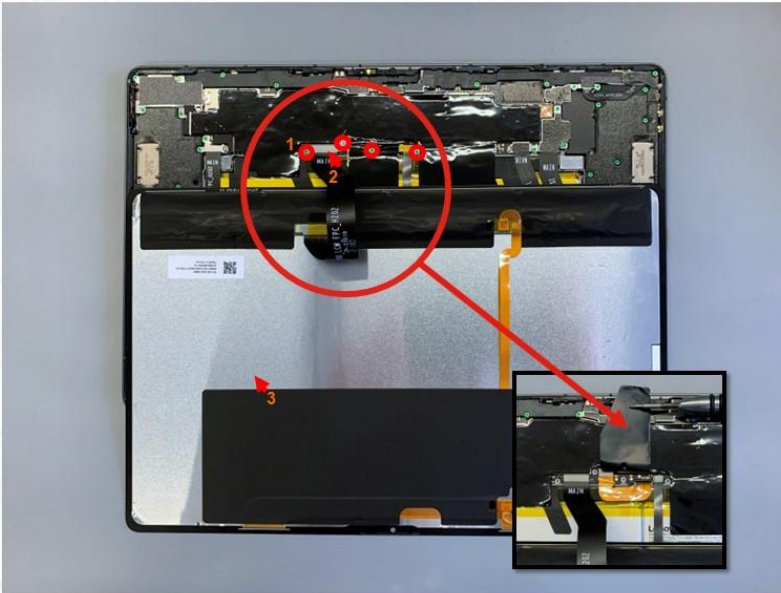
Lenovo T&SD WW SVC TS&PE

- Insert a Suction Cup between front and rear housing starting from the SIM card slot area.
- Insert the Guitar Pick twice to slide open the TPLCM. If needed, reheat the TPLCM for no more than 5 min and repeat.

Lenovo

3

+ Disassembly

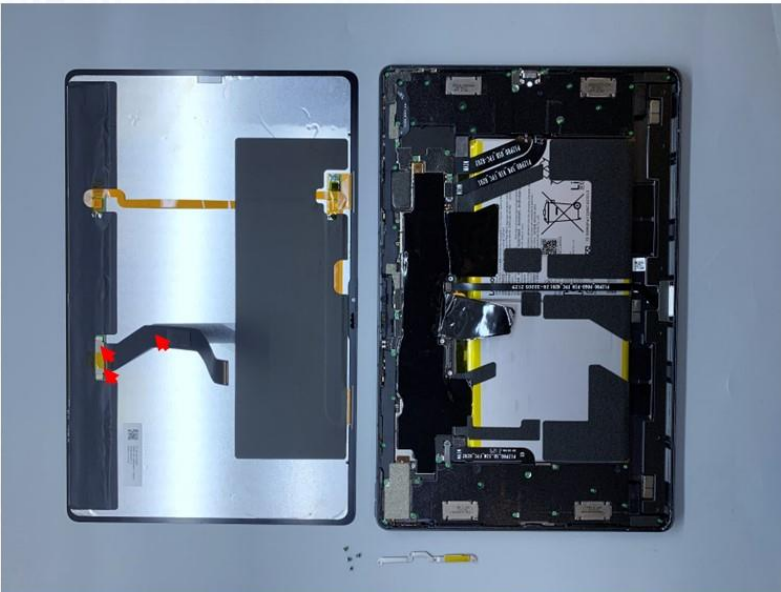


Lenovo T&SD WW SVC TS&PE

- Lift up and turn over the TPLCM from top and then place it on the rear housing, screen facing down.
- Lift up the Graphite sheet as circled in red, to remove (1) **4 Screws** and the (2) **Battery steel**.
- Disconnect the TPLCM FPC from the Mainboard.
- Remove the (3) **TPLCM**.

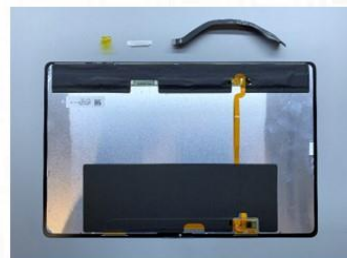
Lenovo
4

+ Disassembly



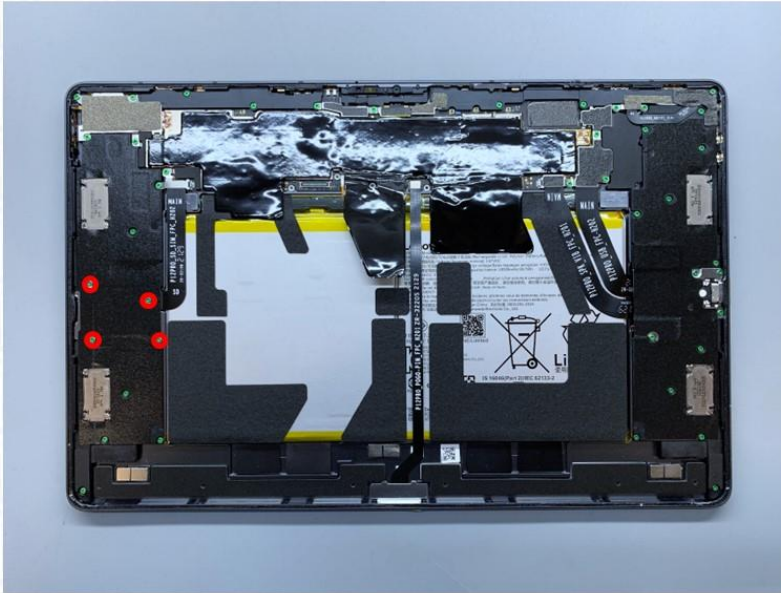
Lenovo T&SD WW SVC TS&PE

- Remove the **Mylar** on the LCM FPC Connector
- Remove the **LCM Steel**.
- Disconnect and remove the **LCM FPC** from the TPLCM.



Lenovo
5

+ Disassembly



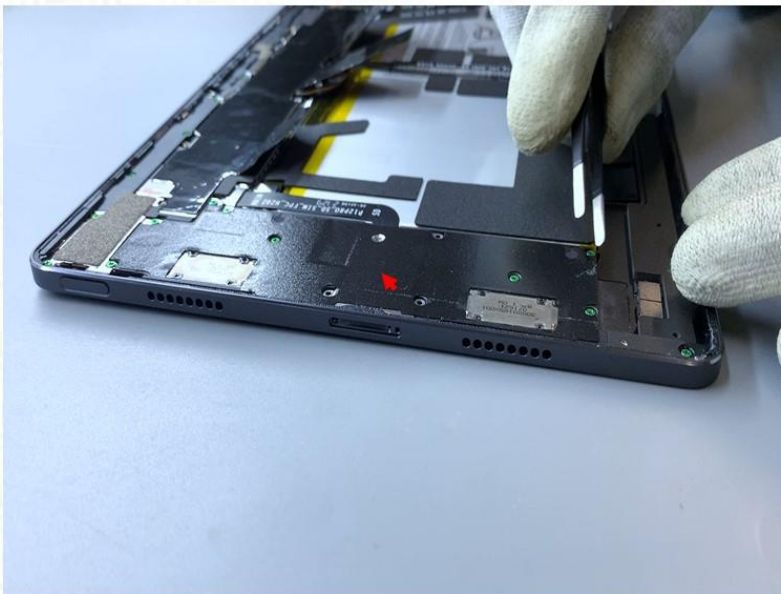
Lenovo T&SD WW SVC TS&PE

- Remove **4 Screws** on the Foam Sheet.

Lenovo

6

+ Disassembly



Lenovo T&SD WW SVC TS&PE

- Use a pair of tweezers to remove the **Speaker Left Foam**.

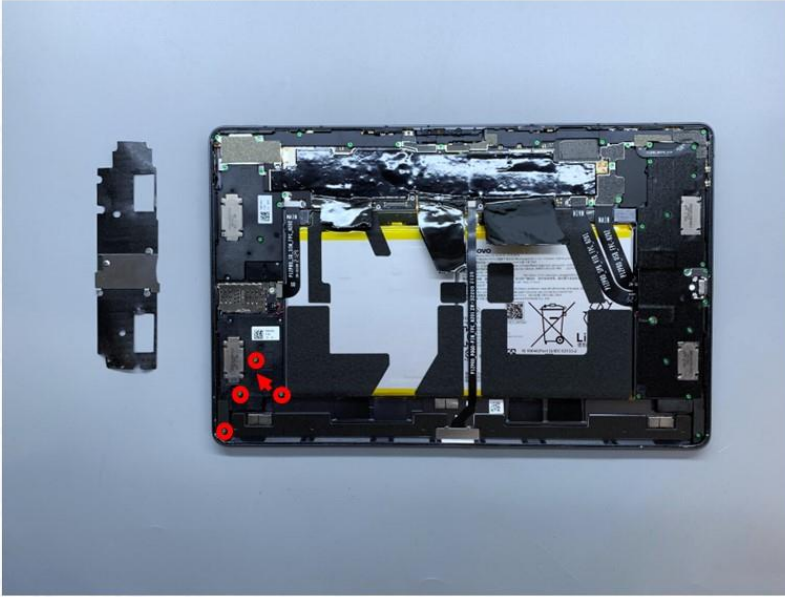
Video on Speaker Foam disassembly available in OSD:

[All Files](#) » [Product Information](#) » [Android Tablet](#) » [TB-Q706\(P12 Pro\)](#) » [Technical Material](#) » [Disassembly Video](#)

Lenovo

7

+ Disassembly



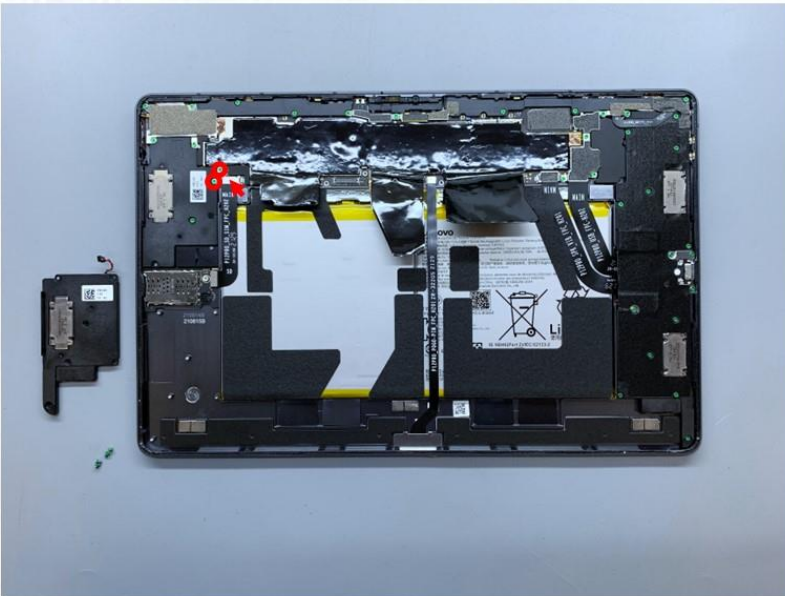
Lenovo T&SD WW SVC TS&PE

- Remove the **4 Screws** on the Bottom left speaker
- Remove the **Bottom left speaker**.

Lenovo

8

+ Disassembly



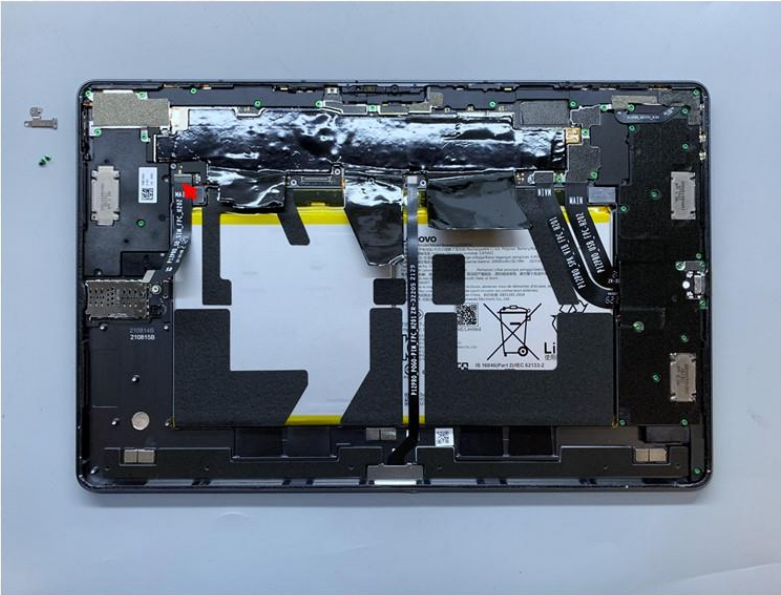
Lenovo T&SD WW SVC TS&PE

- Remove **2 Screws** on the Sub Board Steel (MB-USB Board)
- Remove the **Sub Board Steel**.

Lenovo

9

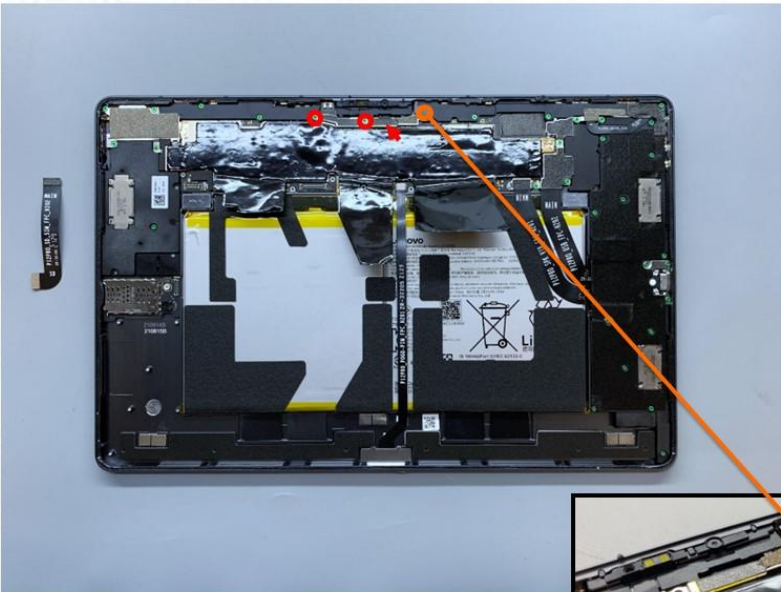
+ Disassembly



Lenovo T&SD WW SVC TS&PE

- Disconnect and remove the **SIM/SD FPC** (MB-SIM Board).

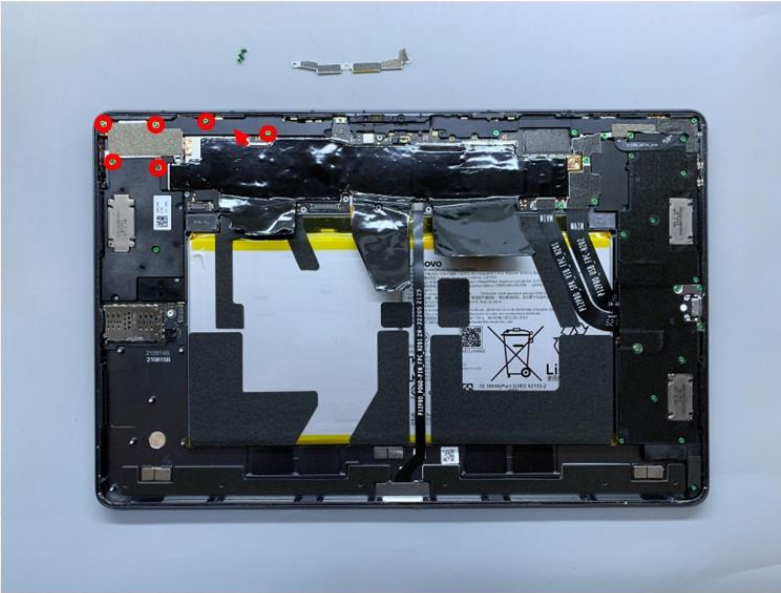
+ Disassembly



Lenovo T&SD WW SVC TS&PE

- Remove the **3 Screws** on the Camera Steel (One of the screws is under the conductive cloth).
- Remove the **B2B Steel**.

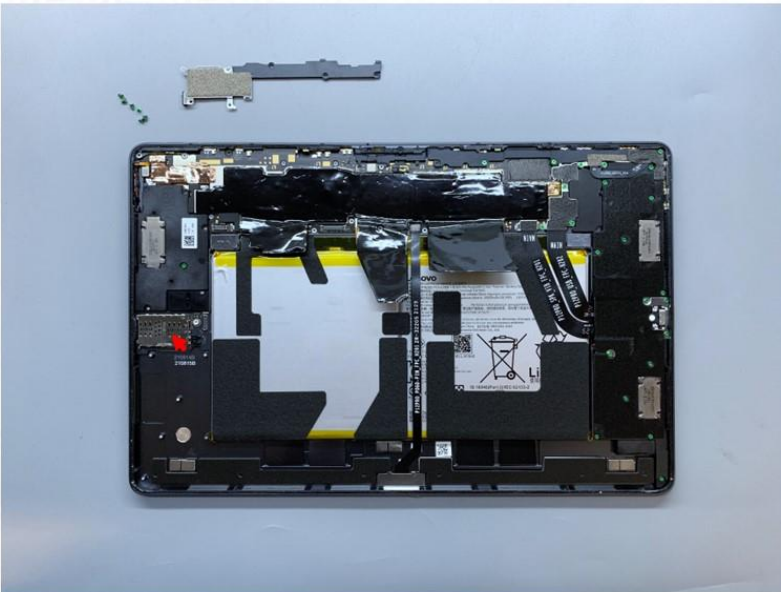
+ Disassembly



Lenovo T&SD WW SVC TS&PE

- Remove the **6 Screws** on the left Antenna Assembly.
- Remove the **Antenna Frame 1 (left)**.

+ Disassembly



Lenovo T&SD WW SVC TS&PE

- Use a Pry Bar to remove the **SIM Board**.

+ Disassembly



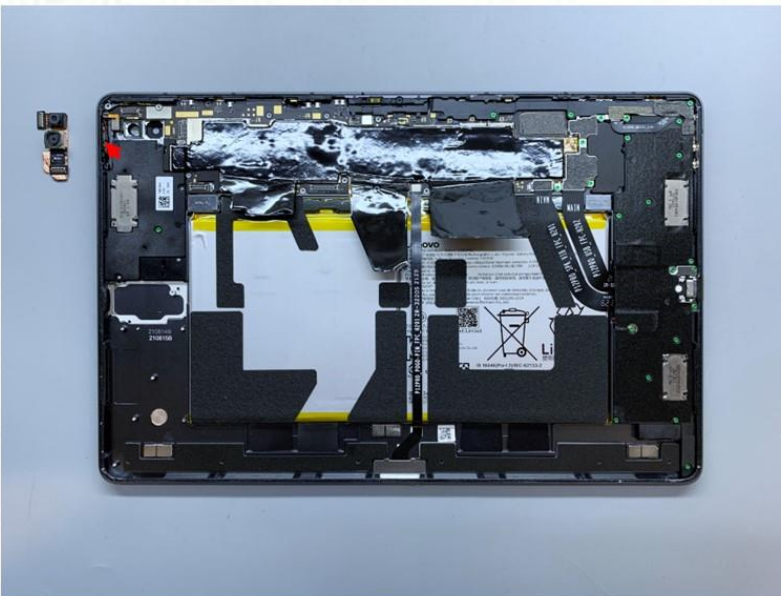
Lenovo T&SD WW SVC TS&PE

- Disconnect and remove the **2 Rear Camera** (Copper foil on the Rear Camera can be reused).

Lenovo

14

+ Disassembly



Lenovo T&SD WW SVC TS&PE

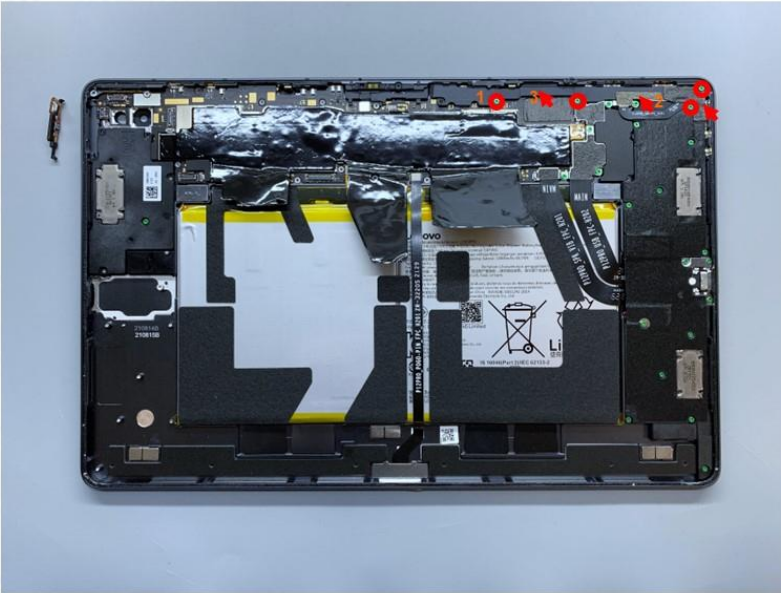
- Separate the two rear cameras from each other.
- Remove the **Power Key and Fingerprint reader FPC Assembly**



Lenovo

15

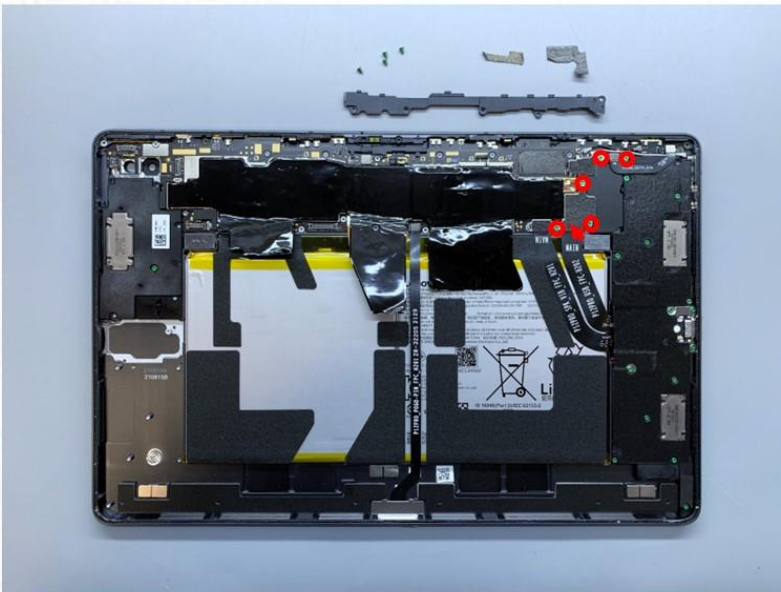
+ Disassembly



Lenovo T&SD WW SVC TS&PE

- Remove the (1) **4 Screws** and (2) **2 Conductive Cloth** from the Right Antenna Assembly
- Remove the (3) **Antenna Frame 2 (Right)**.

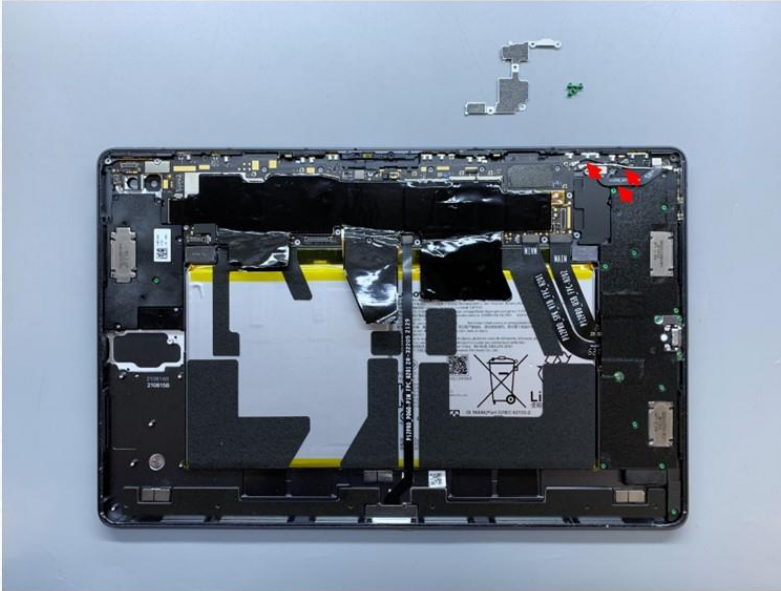
+ Disassembly



Lenovo T&SD WW SVC TS&PE

- Remove the **5 Screws** on the Antenna Board Steel.
- Remove the **USB FPC Steel**.

+ Disassembly



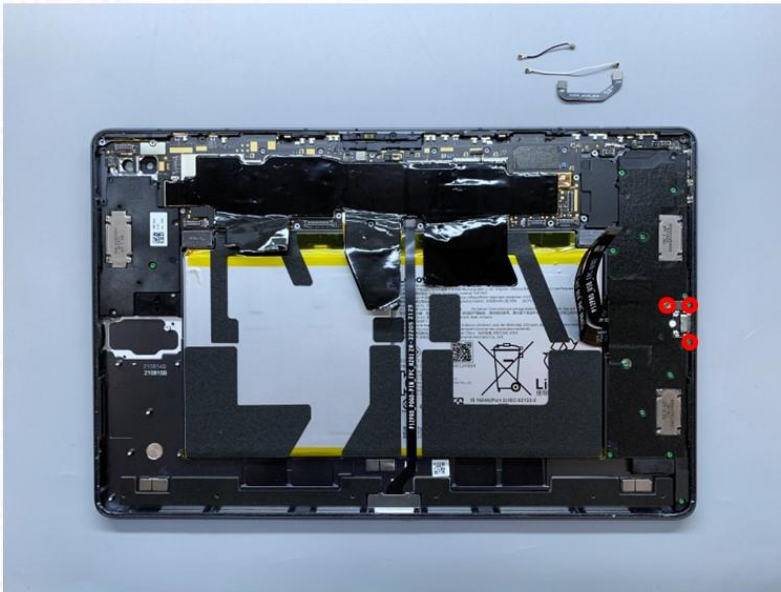
Lenovo T&SD WW SVC TS&PE

- Disconnect and remove the **2 Antenna Cables**
 - 1 black 31.5mm antenna cable
 - 1 white 48.5mm antenna cable
- Disconnect and remove the **USB FPC cable**

Lenovo

18

+ Disassembly



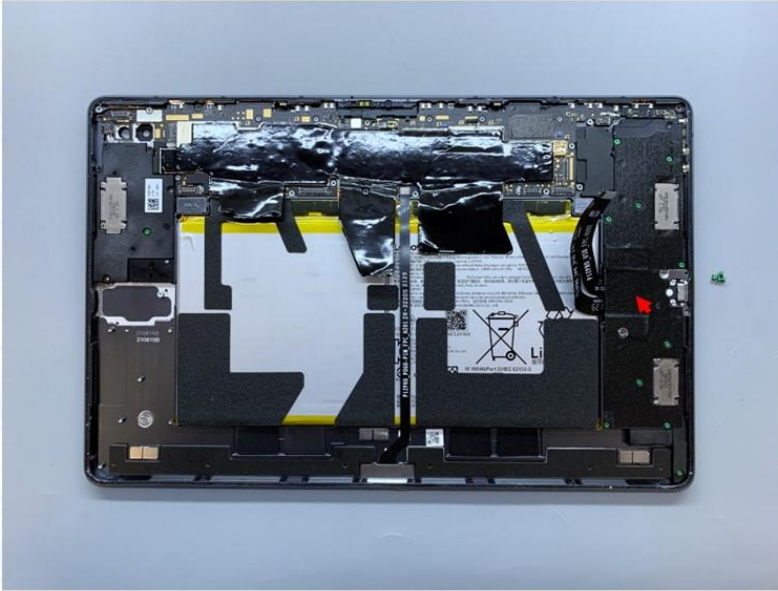
Lenovo T&SD WW SVC TS&PE

- Remove **3 screws** on the USB board.

Lenovo

19

+ Disassembly



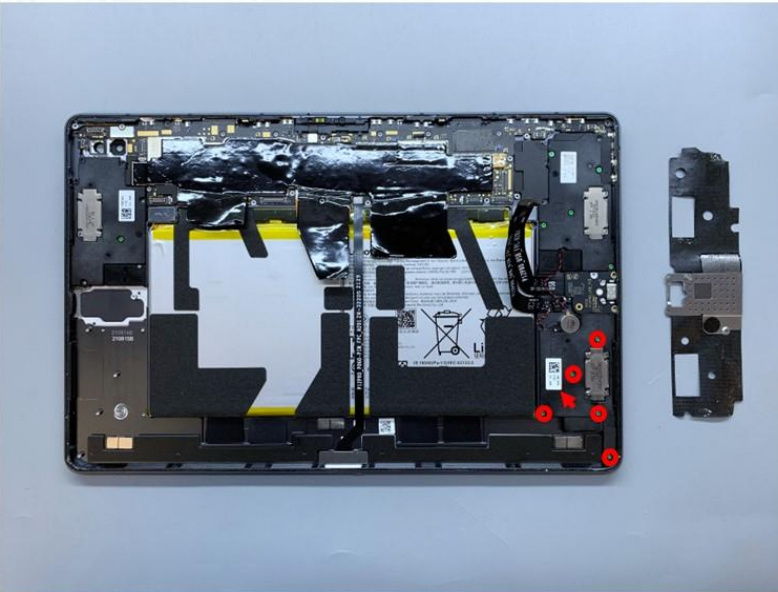
Lenovo T&SD WW SVC TS&PE

- Use a tweezer to remove the **Speaker Right Foam**.

Lenovo

20

+ Disassembly



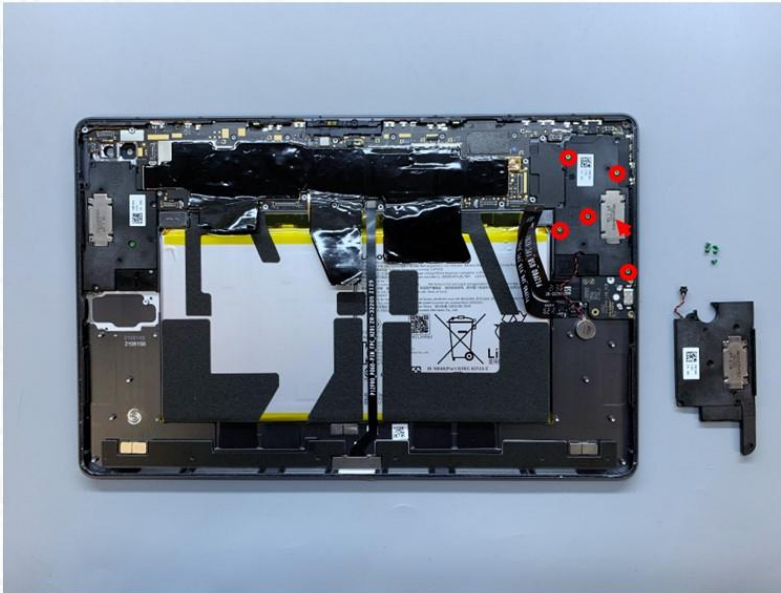
Lenovo T&SD WW SVC TS&PE

- Remove **5 screws** on the bottom right speaker
- Disconnect and remove the

Lenovo

21

+ Disassembly



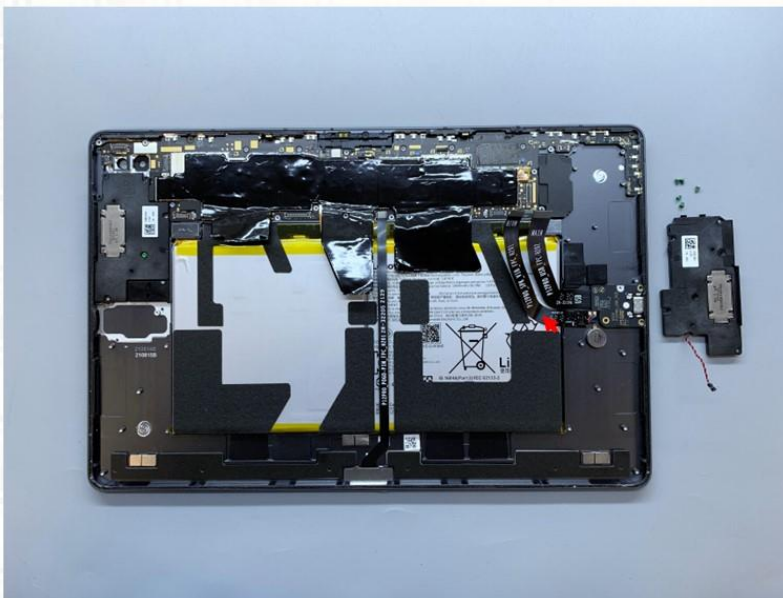
Lenovo T&SD WW SVC TS&PE

- Remove the **5 Screws** on the Speaker (Top right)
- Remove the **Speaker (Top right)**

Lenovo

22

+ Disassembly



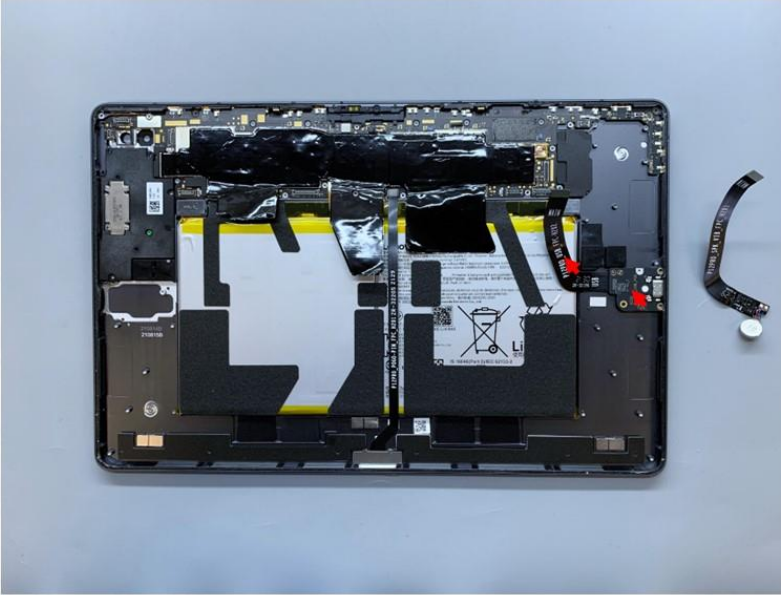
Lenovo T&SD WW SVC TS&PE

- Remove the **Vibrator FPC**.

Lenovo

23

+ Disassembly



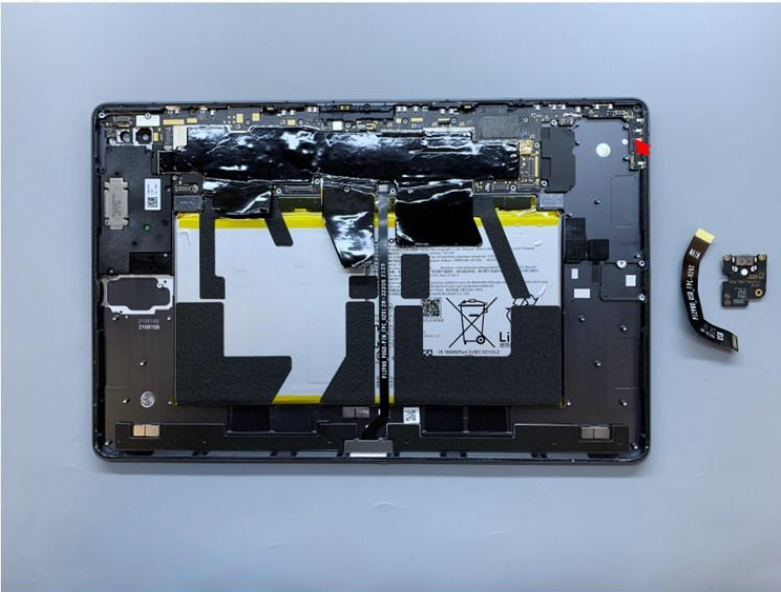
Lenovo T&SD WW SVC TS&PE

- Use a Pry Bar to remove the **USB Board**.
- Disconnect and remove the **USB FPC** from the USB Board.

Lenovo

24

+ Disassembly



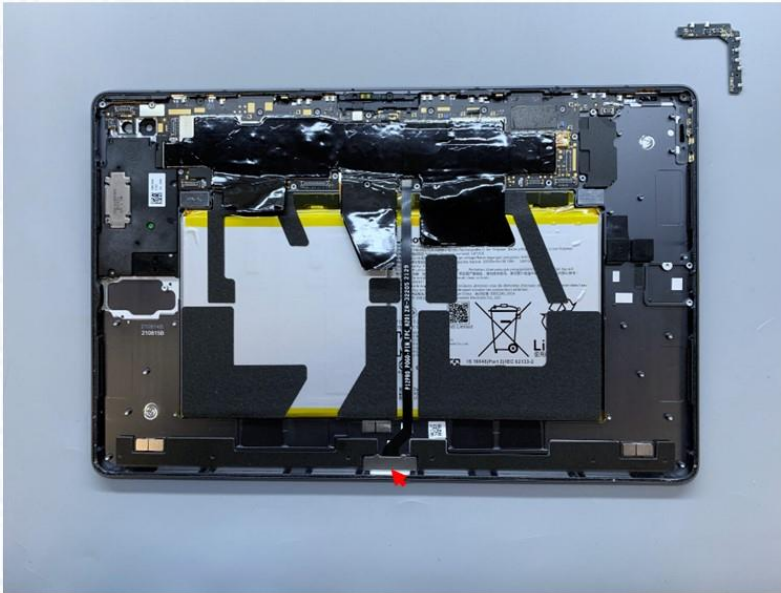
Lenovo T&SD WW SVC TS&PE

- Use a Pry Bar to remove the **Antenna Board**.

Lenovo

25

+ Disassembly



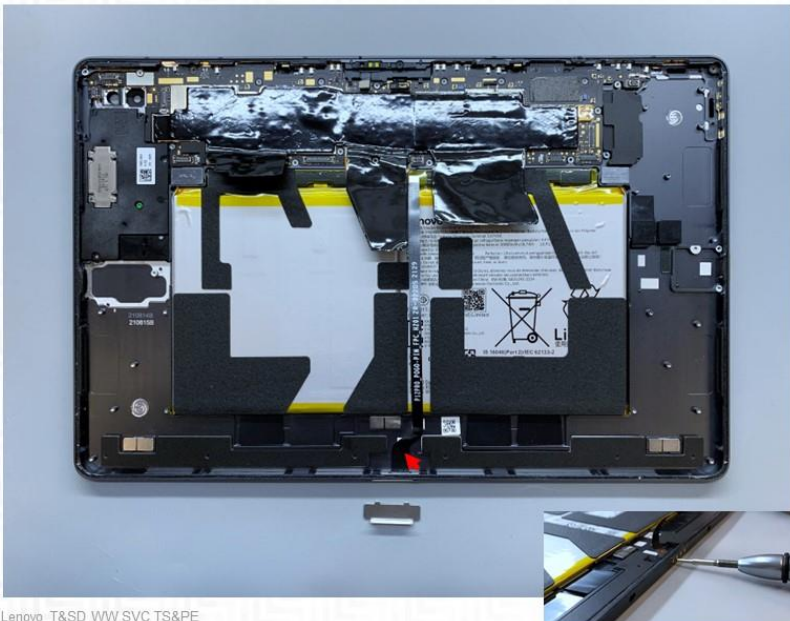
Lenovo T&SD WW SVC TS&PE

- Use a Pry Bar to remove the **Pogo Pin Steel**.

Lenovo

26

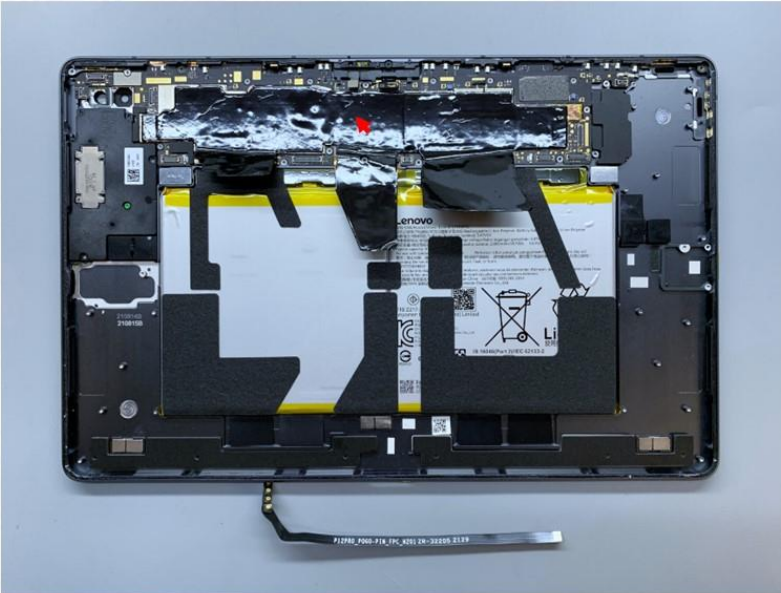
+ Disassembly



Lenovo T&SD WW SVC TS&PE

- Insert a pointed tool to the Pogo Pin hole to remove the **Pogo Pin FPC**.

+ Disassembly



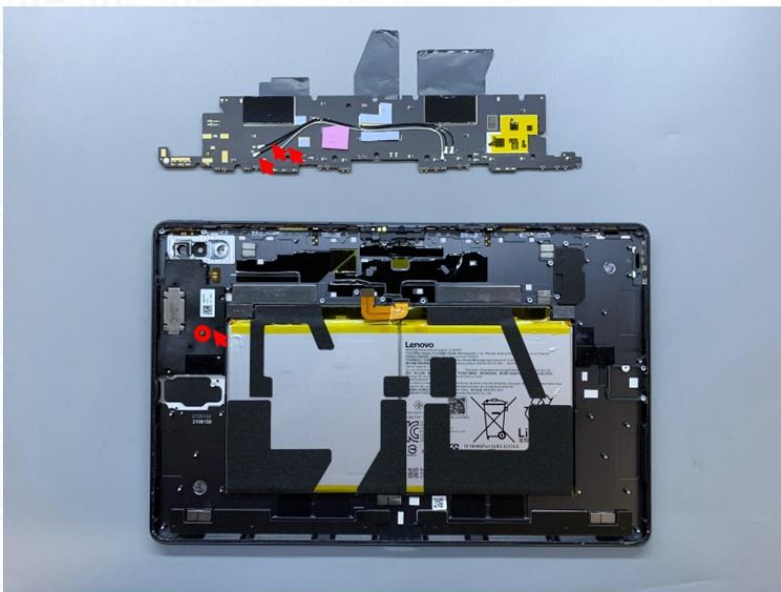
Lenovo T&SD WW SVC TS&PE

- Use a pry bar to remove the **Mainboard**.

Lenovo

28

+ Disassembly



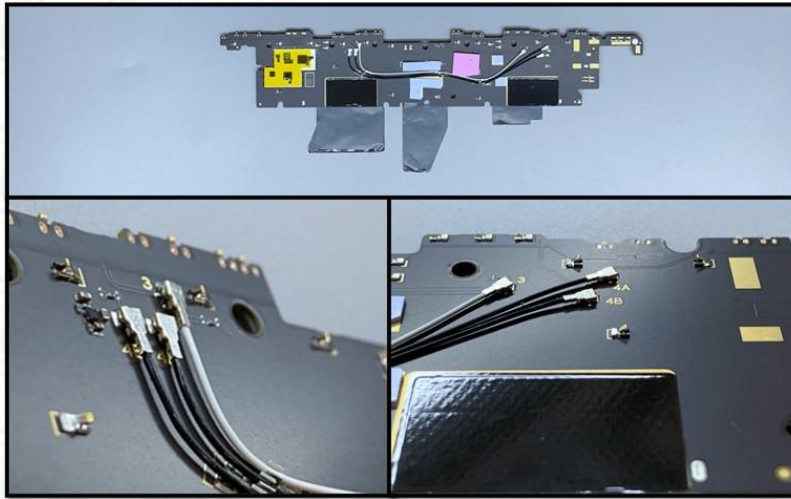
Lenovo T&SD WW SVC TS&PE

- Disconnect and remove the **3 RF cables** from the Mainboard.
- Use a pry bar to remove the **Speaker (Top left)**.

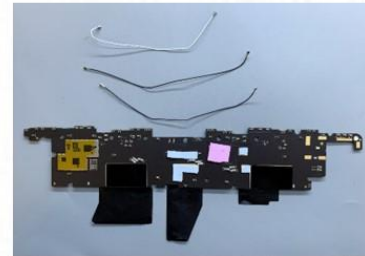
Lenovo

29

+ Disassembly



When reassembling, make sure the RF cables are properly assembled according to the code printed on the Mainboard.

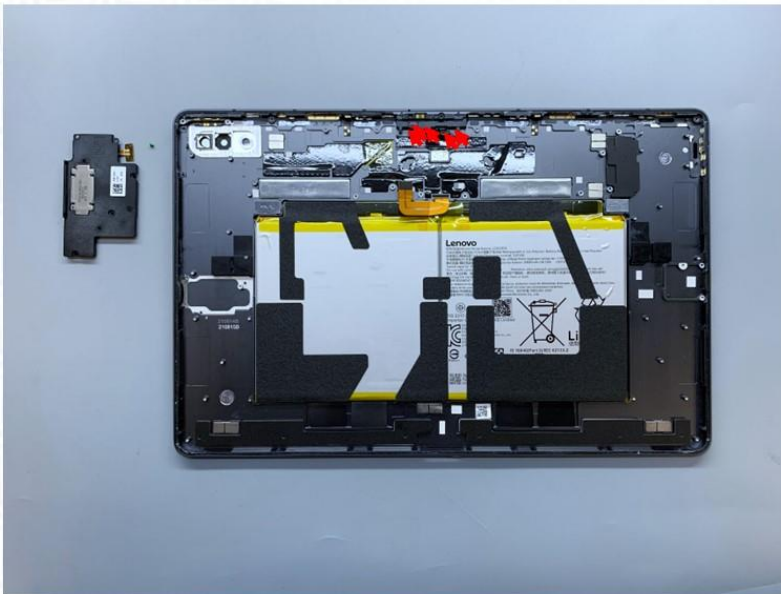


Lenovo T&SD WW SVC TS&PE

Lenovo

30

+ Disassembly



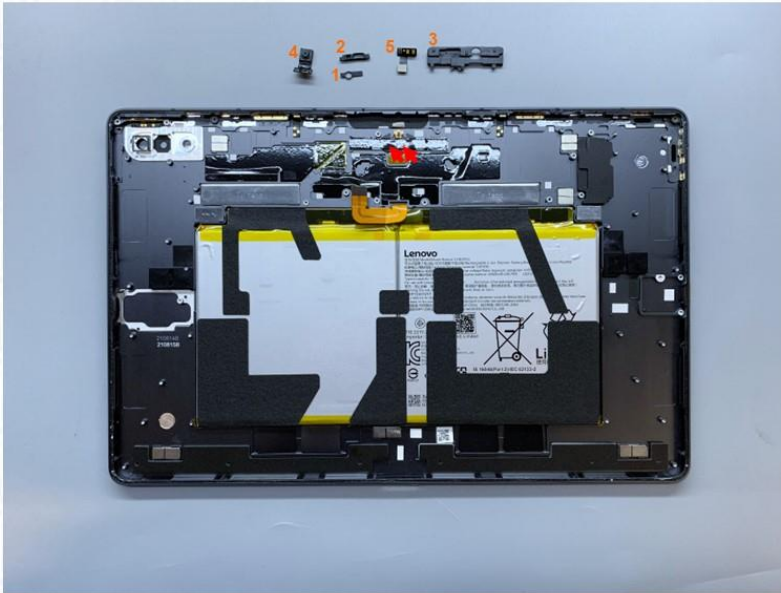
- Remove the (1) **Front Camera Rubber** and (2) **Sensor Rubber** on the Camera Frame.
- Remove the (3) **Camera Frame**
- Disconnect and remove the (4) **front Camera**
- Disconnect and remove the (5) **Sensor FPC**

Lenovo T&SD WW SVC TS&PE

Lenovo

31

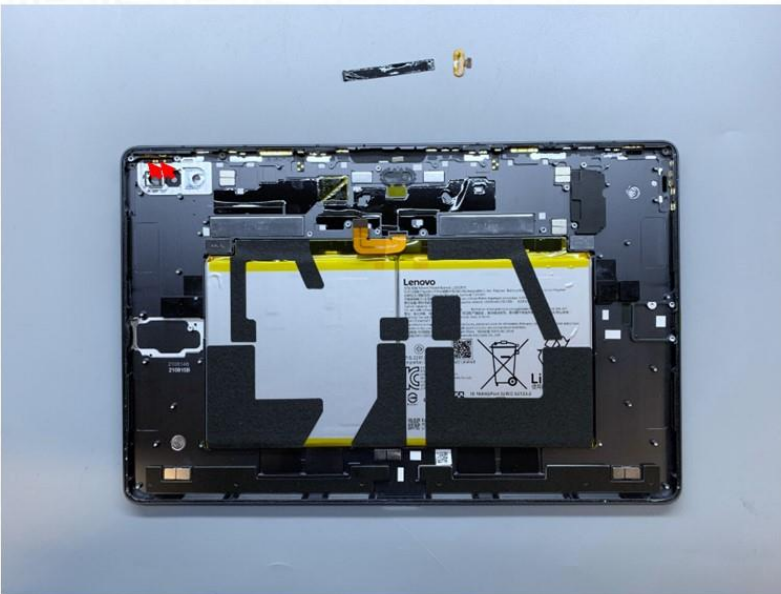
+ Disassembly



Lenovo T&SD WW SVC TS&PE

- Remove the **NFC FPC Assembly** (including both NFC FPC and Black Graphite Sheet). The NFC FPC Assembly are also included in the Rear Cover Assembly.

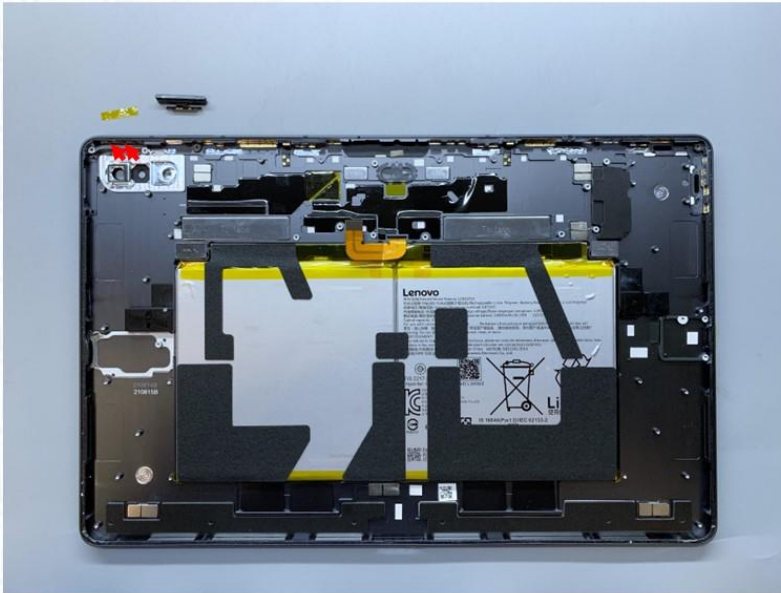
+ Disassembly



Lenovo T&SD WW SVC TS&PE

- Remove the **Mylar** on the Side Key FPC
- Remove the **Side Key FPC**.

+ Disassembly



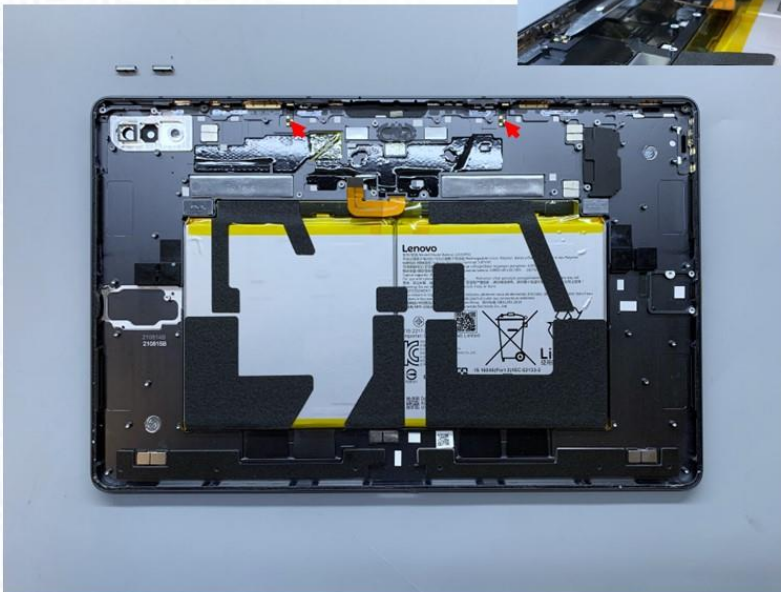
Lenovo T&SD WW SVC TS&PE

- Remove the **2 Volume Keys**.

Lenovo

34

+ Disassembly



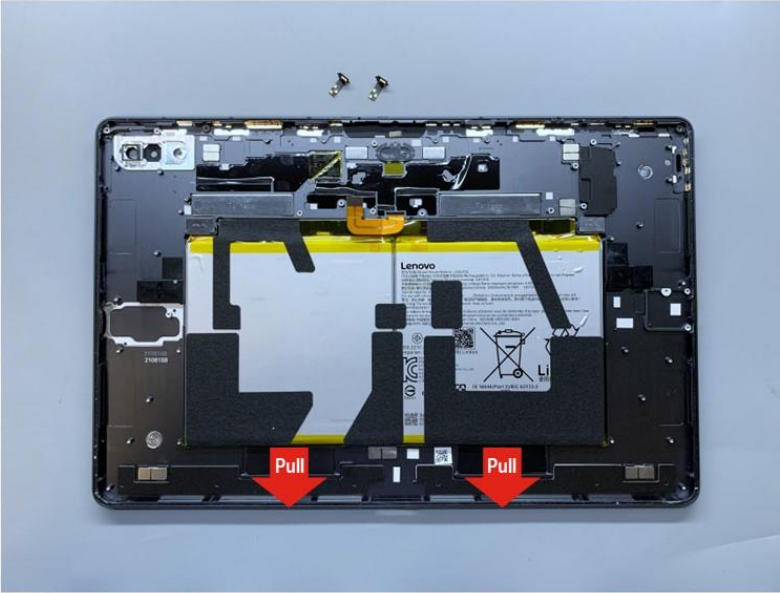
Lenovo T&SD WW SVC TS&PE

- Use a Surgical Knife or flat tweezers to remove the **2 microphones**.

Lenovo

35

+ Disassembly



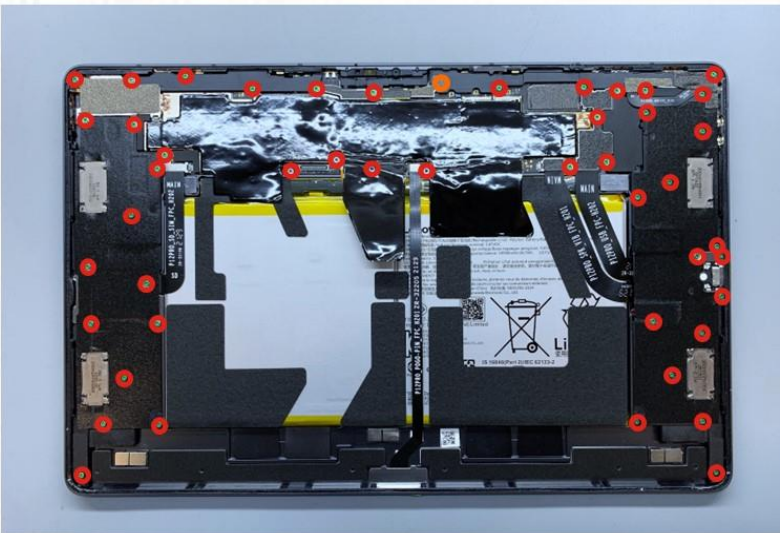
Lenovo T&SD WW SVC TS&PE

- Slowly pull the two Battery Adhesive Tabs using tweezers
- Remove the **Battery**.

Lenovo

36

+ Screws Location



47 Green Screws
(Circled in red)

It is important to make sure all screws are properly installed.

Lenovo T&SD WW SVC TS&PE

Lenovo

39

9. Part Replacement Repair

9.1 Explosive View

+ Exploded View



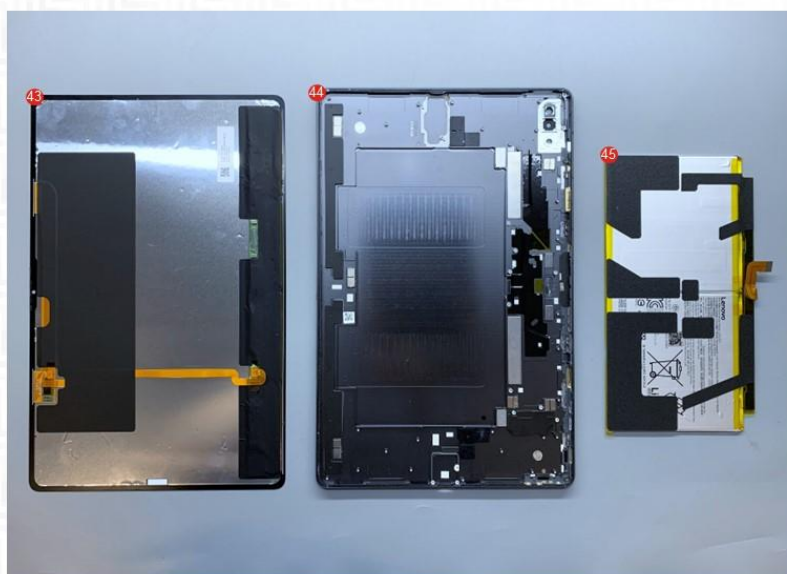
Lenovo T&SD WW SVC TS&PE

1. USB Board
2. SIM Board
3. Antenna Board
4. Mainboard
5. Speaker (Top right)
6. Speaker (Bottom right)
7. Speaker (Top left)
8. Speaker (Bottom left)
9. Type C Steel (Not incl. Speaker Foam)
10. SIM/SD Steel (Not incl. Speaker Foam)
11. RF Cable (Black, 129mm)
12. RF Cable (Black, 129mm)
13. RF Cable (White, 116mm)
14. RF Cable (White, 48.5mm)
15. RF Cable (Black, 31.5mm)
16. Pogo Pin FPC
17. SIM/SD FPC
18. Vibrator FPC
19. USB FPC
20. LCM FPC
21. Antenna FPC
22. Side keys FPC
23. Volume Keys x2
24. Power Key FPC Assembly
25. Camera Frame
26. Antenna Frame 1 (left)
27. Antenna Frame 2 (Right)
28. Two Rear Cameras (2 Separate PN. Not incl. Copper Foil)
29. Front Camera
30. Sensor FPC
31. Mic FPC x2
32. NFC FPC Assembly
33. Camera Rubber
34. TOF Rubber
35. Screws
36. Pogo Pin Steel
37. LCM Steel
38. Battery Steel
39. B2B Steel
40. SIM FPC Steel
41. USB FPC Steel
42. SIM Tray

Lenovo

37

+ Exploded View (Continued)



Lenovo T&SD WW SVC TS&PE

43. TPLCM
44. Rear Cover
45. Battery

Lenovo

38

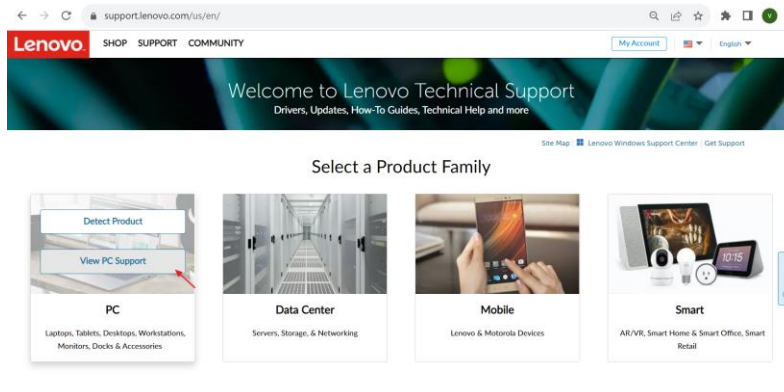
9.2 How to Order PN

Find and purchase high-performance replacement parts on <https://support.lenovo.com/us/en/>

1. Look up

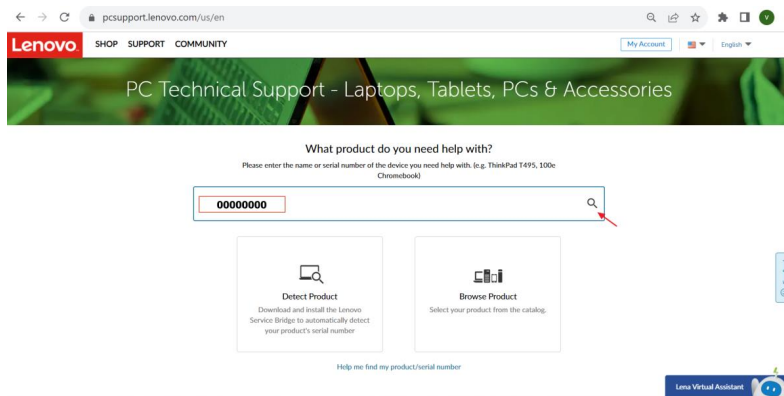
 Identify your device, view parts info & availability

Click **View PC Support**:



Input the SN then click search icon.

[How To Find Device's Serial Number \(SN\) For Android Tablets](#)



Then you can find the product's information.

PC Support > Tablets > M Series tablets > Lenovo Tab M10 Plus 3rd Gen (TB125FU, TB128FU, TB128XU) / Moto Tab g62 - Ty



Product Home

Product Info

Serial Number: HA113FZ5

Machine Type Model: ZAAK0000MUS

Machine Info: Machine Info

Warranty Status In Warranty [View Details >](#)

Current Service & Support Status < 6 months remaining [Correct the purchase date | Click | here](#)

Started Jun 2023 **End** Jun 2024

Quick Links

[Accessories](#) [Drivers & Software](#)

Lenovo Tab M10 Plus 3rd Gen (TB125FU, TB128FU, TB128XU) / Moto Tab g62 - Type ZAAK

Serial Number: 00000000

[Detect Product](#) [Change Product](#)

- [Product Home](#)
- [Troubleshoot & Diagnose](#)
- [How To's](#)
- [Guides & Manuals](#)
- [Warranty & Services](#)
- [Repair Status](#)
- [Parts](#)
- [Contact Us](#)

How Can We Help You Today?

[Download Lenovo App](#)
[Download Rescue and Smart Assistant](#)
[My Device Isn't Working Properly](#)
[Contact Us](#)

[Repair Status](#)
[Register Products & Services](#)

2 . Select Parts

Select the parts you want to purchase.



Click on “Parts”, you can see the FRU parts information.

PC Support > Tablets > M Series tablets > Lenovo Tab M10 Plus 3rd Gen (TB125FU, TB128FU, TB128XU) / Moto Tab g62 - Ty



Parts

[Tutorial on purchasing parts](#) | [Lenovo Parts FAQ](#)

[As-Built](#) [Model](#) [Machine Type](#) [Schematic](#) [Check Other Products](#)

Commodity Type: Select Commodity

☐ In-stock parts only

Found 0 results:

Sorry, no matching data is found

Total: 0 [1](#) [Show Rows](#) [10](#)

For parts installation enquiry and assistance, please kindly contact our [technical support](#). The above parts are filtered for your specific system. To find more parts for this machine type, please check the Machine Type tab.

Can't find all your parts here? Please visit [lenovo.enscompass.com](#) for additional part purchasing options. Conditions of Parts may be New or Refurbished.

Additional Parts [v](#)

Lenovo Tab M10 Plus 3rd Gen (TB125FU, TB128FU, TB128XU) / Moto Tab g62 - Type ZAAK

Serial Number: 00000000

[Detect Product](#) [Change Product](#)

- [Product Home](#)
- [Troubleshoot & Diagnose](#)
- [How To's](#)
- [Guides & Manuals](#)
- [Warranty & Services](#)
- [Repair Status](#)
- [Parts](#)
- [Contact Us](#)

Click on “Model”, you can see service parts.



Lenovo Tab M10 Plus 3rd Gen (TB125FU, TB128FU, TB128XU) / Moto Tab g62 - Type ZAAK

Serial Number
00000000

Detect Product Change Product

- Product Home
- Troubleshoot & Diagnose
- How To's
- Guides & Manuals
- Warranty & Services
- Repair Status
- Parts**
- Contact Us

Parts

Tutorial on purchasing parts | Lenovo Parts FAQ

As-Built **Model** Machine Type Schematic Check Other Products

Commodity Type: Select Commodity In-stock parts only

Found 37 results:

	TB125FU volume Key&*712300802121CS Part No 5B68C20632 Commodity COVERS VARIOUS BUTTON, SUCH AS BUTTON, S View More Substitutes (0) Bundles (0)	Est 7 days delivery \$26.51 Est Value: \$30.13 Savings of \$3.62 Add to Cart
	TB125FU USB FPC&*713300802151CS Part No 5F78C20624 Commodity FLEXIBLE PRINTED CIRCUIT View More Substitutes (0) Bundles (0)	Est 7 days delivery \$27.06 Est Value: \$30.76 Savings of \$3.69 Add to Cart
	TB125FU USB foam&*712400802011CS Part No 5D78C20640 Commodity DIE-CUT PIECES/DOUBLE-SIDED ADHESIVE AND FOAM View More Substitutes (0) Bundles (0)	Unavailable

Choose what you want to buy according to commodity type as below picture.



Lenovo Tab M10 Plus 3rd Gen (TB125FU, TB128FU, TB128XU) / Moto Tab g62 - Type ZAAK

Serial Number
00000000

Detect Product Change Product

- Product Home
- Troubleshoot & Diagnose
- How To's
- Guides & Manuals
- Warranty & Services
- Repair Status
- Parts**
- Contact Us

Parts

Tutorial on purchasing parts | Lenovo Parts FAQ

As-Built **Model** Machine Type Schematic Check Other Products

Commodity Type: Select Commodity In-stock parts only

☐ All Batteries - NB AND CMOS (BIOS) (1)
☐ Charger/Adapter (1)
☒ COVERS ALL ANTENNA IN NB, AIO, DTWS AND (2)
☒ Covers All LCD, LED Displays Including (1)
☒ Covers All Types Of Cabling (1)
☐ COVERS VARIOUS BUTTON, SUCH AS BUTTON, S (2)
☐ COVERS VARIOUS METAL COMPONENTS, SUCH AS (7)
☐ Die-Cut Pieces/Double-Sided Adhesive And Foam (6)
☐ FLEXIBLE PRINTED CIRCUIT (3)
☐ Graphics/Video Cards (2)
☐ Housing \ Housing \ Battery Cover (1)

ANTENNA IN NB, AIO, DTWS AND X COVERS ALL TYPES OF CABLING X
 71CS
 ABLING. Notify me when it's available
 5081CS

	TB125FU MIC holder&*712500802031CS Part No 5A38C20631 Commodity COVERS ALL ANTENNA IN NB, AIO, DTWS AND View More Substitutes (0) Bundles (0)	Est 7 days delivery \$26.58 Est Value: \$30.26 Savings of \$3.62 Add to Cart
---	--	---

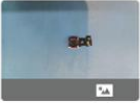
3 . Check Out

Complete your order and check out.



You can find service parts have 3 kinds of status:

1. **Add to cart**: Select the parts you want and buy now!
2. **Notify me when it's available**: Inform us and we will prepare the parts as soon as possible.
3. **Unavailable**: No Sale



8MAF Qtech C18A06 GC SPY8111C VV10-12 30
Part No SC28D30542
Commodity GRAPHICS/VIDEO CARDS
[View More](#) 

1 

Substitutes (0) Bundles (0)

 Est 7 days delivery
\$28.82
Est Value: ~~\$32.75~~
Savings of \$3.93
[Add to Cart](#)



TB125FU AS_MB_4+128G&*715201023641CS
Part No 5B28C20615
Commodity MOTHERBOARD, PLANAR
[View More](#) 
Substitutes (0)

[Notify me when it's available](#) 



TB125FU Sealing label&*712700067171CS
Part No 5D78C20643
Commodity DIE-CUT PIECES\DOUBLE-SIDED ADHESIVE AND FOAM
[View More](#) 
Substitutes (0) Bundles (0)

Unavailable

10. Accessories

1. Block Diagram



2. Circuit Schematic



3. Component Layout

