

Titan Slim, Titan Pocket + Lineage OS 20

by

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1. **Backup** all your personal files (because the **phone will be completely wiped after unlocking**).

2. **Unlock** your Titan Slim
 - a. Phone: Enable developer options in Settings > System > open About (?) > HardReset.info: Then tap 7 times in Build number to become a developer.
 - b. Phone: Settings > System > Developer settings > enable USB debugging
 - c. Phone: Settings > System > Developer settings > enable OEM unlock
 - d. PC: Install ADB tools and device drivers (required for Windows – http://rumplestilzken.com:14005/Unihertz/StockResources?action=AttachFile&do=view&target=Driver_Auto_Installer_EXE_v5.1632.00.zip)
 - e. Connect phone via USB cable to your PC with installed ADB tools
 - f. PC: run Terminal (Linux) or CMD (Windows)
 - g. PC: Terminal > Adb devices # to see if your device is recognized – if you see there your device you can continue
 - h. PC: Terminal > adb reboot fastboot # phone reboots into fastboot
 - i. PC: Terminal > fastboot devices # to see if your device is recognized – if you see there your device you can continue
 - j. PC: Terminal > fastboot flashing unlock
 - k. Phone: You are asked to VolumeUP to unlock or VolumeDown to cancel – select VolumeUP
 - l. PC: Terminal > fastboot getvar unlocked # to confirm bootloader is unlocked
 - m. PC: Terminal > fastboot reboot
 - n. Phone will reboot and get wiped

3. **Root** your Titan Slim (phone bootloader has to be unlocked)
 - a. PC: Obtain Magisk.apk from: <https://github.com/topjohnwu/Magisk>
 - b. PC: Obtain Stock Rom for your region (for EU(eea) or for non-EU(tee)) (<http://rumplestilzken.com:14005/Unihertz/StockResources>)
 - c. PC: Extract Stock Rom and copy **boot.img** to your Titan Slim.
 - d. Phone: Enable developer options in Settings > System > open About Phone > Then tap 7 times in Build number to become a developer.
 - e. Phone: Settings > System > Developer settings > enable USB debugging
 - f. Phone: Install Magisk (you will be prompted to allow installation from unknown sources if you didnt do before)
 - g. Phone: Run Magisk app
 - h. Phone: In Magisk > Install (Magisk) > **DO NOT CHECK vbmeta patch!!!** > next > locate and select boot.img file > next > wait untill all is done
 - i. PC: Copy patched boot.img file (there is Magisk app version number in its name-usually) into your PC. If you cannot see that file, disconnect and reconnect your phone to PC.
 - j. PC: Terminal > adb reboot bootloader
 - k. PC: Terminal > fastboot flash boot <magisk-boot.img> # flash that patched image into your phone
 - l. PC: Terminal > fastboot reboot
 - m. Phone: open Magisk while connected to the internet, if asked for reboot, reboot nad open Magisk again after reboot.
 - n. PC: Terminal > adb shell
 - o. PC: Terminal > su
 - p. Phone: Phone Allow permissions for adb in your Magisk # Tell Magisk it is ok
 - q. PC: Terminal > mount -o remount,rw /
 - r. PC: Terminal > touch /system/delete_me

- s. PC: if there is no Error message, you are successfully rooted
 - t. To exit adb shell disconnect your phone and reconnect it back.
4. Prepare your image for flash with mksuper (further instructions are based on this guide <https://github.com/rumplestilzken/mksuper> with some notes, not mentioned there)
- a. PC: if you have not downloaded stock rom before, download it. See 3.b
 - b. PC: Download your latest Lineage OS image for your phone (Titan Slim) from here: https://github.com/rumplestilzken/unihertz_titan_lineageos20/releases
 - c. PC: Terminal > git clone https://github.com/rumplestilzken/mksuper.git mksuper
 - d. PC: Place your downloaded stock rom into the mksuper directory. **Do not extract it!!!**
 - e. PC: **extract image file** from *.tar.gz file into the mksuper directory.
 - f. PC: Open Terminal in mksuper folder > python3 install-dependencies.py # This will ask for your admin password.
 - g. PC: Terminal > python3 extract.py
 - a. PC: Terminal > python mksuper.py
 - h. Now, your image is ready for flashing. At mksuper/super/super.new.img
5. **Flashing** (phone plugged into PC)
- a. PC: Terminal > adb reboot bootloader
 - b. Phone screen should look like: Black screen, tiny white writing bottom left corner“
 - c. The following three files are located at mksuper/<STOCK_ROM_FOLDER>
 - d. PC: Terminal > fastboot flash --disable-verity --disable-verification vbmeta <vbmeta.img>
 - e. PC: Terminal > fastboot flash --disable-verity --disable-verification vbmeta_system <vbmeta_system.img>
 - f. PC: Terminal > fastboot flash --disable-verity --disable-verification vbmeta_vendor <vbmeta_vendor.img>
 - g. PC: Terminal > fastboot flash super <path/to/super.new.img> # usually in /mksuper/super folder
 - h. Wait while everything is flashed.
 - i. PC: Terminal > fastboot erase cache
 - j. PC: Terminal > fastboot erase userdata # Skip this step if you are not coming from stock rom
 - k. PC: Terminal > fastboot reboot
 - l. Phone will boot into Lineage OS
6. Post installation:
- a. Open Settings->Phh Treble Settings->Misc features-> Use alternate way to detect headset # check this to get Headphone jack/USB C Audio Jack working – reboot will be required
 - b. Open Settings->Phh Treble Settings->IMS Features Check Request IMS Network, Install IMS APK For MediaTek R Vendor. # This will enable VoLTE – reboot will be required
 - c. Optional:: Open Settings-> Phh Treble Settings->Misc features-> Force navigation bar disabled # This will disable button navigation bar, which is useless on Titan Slim with such hw keys – reboot will be required

7. Google apps (optional):
 - a. PC: Visit: https://github.com/rumplestilzken/unihertz_titan_lineageos20
 - b. PC: Download wacko's Magisk module and copy to your phone
 - c. Phone: Magisk > Modules > Install from storage > locate wacko's Magisk module> install > reboot
 - d. Phone: Try to open Google play, if there is "Not Certified" warning,, proceed to next step
 - e. PC: Click on:
https://accounts.google.com/v3/signin/confirmidentifier?dsh=S-687472904%3A1684673516553894&authuser=0&continue=https%3A%2F%2Fwww.google.com%2Fandroid%2Funcertified%2F&followup=https%3A%2F%2Fwww.google.com%2Fandroid%2Funcertified%2F&ifkv=Af_xneHB6O_ferGWZIONjC5sEkllV0HgX5uDjgllYPcyCriaGK2nQs2W6SGhrnR2lqthGxrv-ahyA&passive=1209600&flowName=GlifWebSignIn&flowEntry=ServiceLogin
 - f. Phone: If developer options are not enabled, enable it
 - g. Phone: Settings > System > Developer settings > enable debugging with root.
 - h. PC: Terminal > adb root
 - i. PC: Terminal > adb shell 'sqlite3 /data/data/com.google.android.gsf/databases/gservices.db \ "select * from main where name = \"android_id\";\"'
 - j. PC: Terminal > copy device identifier, paste it to the site in step 7e, check you are not a robot and hit Register button.
 - k. Wait few until you are able to log in to your google account from the phone
 - l. *Note: Certification problem will occur after every factory reset*
 - m. *To solve contacts synchronisation problem – enable contacts in Google Play services permissions*