Tersus TC80 Controller

User Manual

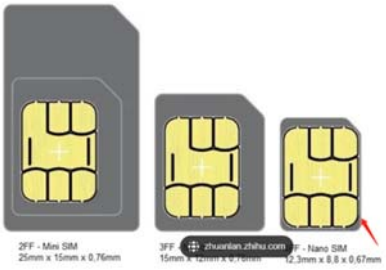
Product Appearance

Charge

Before the first time using, it is recommended to charge the device.

1. Please use the USB (Type-C) cable that comes standard with device for charging, otherwise it may not be able to enable the fast charging mode. Using a non-original charger and USB (Type-C) cable may cause the device to heat up, the charging time to become longer and may lead to failure to charge, repeated reboots, affecting the battery and other situations.
2. It is recommended not to use the device while charging, and not to cover other objects on the device and charger to cause the device to heat up.
3. When the device is in low battery, there will be indicator lights and system prompts, please charge as soon as possible to avoid affecting normal use.
4. If the device needs to be stored for a long time, please ensure that the battery power in about fifty percent, and the device will be placed in a dry and suitable environment, to avoid long time storage lead to device damage.
5. If the battery, charger, charging cable is damaged, please stop using it and contact the after-sales service in time to replace it or buy related accessories, do not repair it by yourself, so as not to bring danger and cause additional losses.

Installation of SIM card and SD card



1. Please use Nano-SIM card for installation.
2. There are 2 card slots on the side, just insert the corresponding card according to the position in the picture.

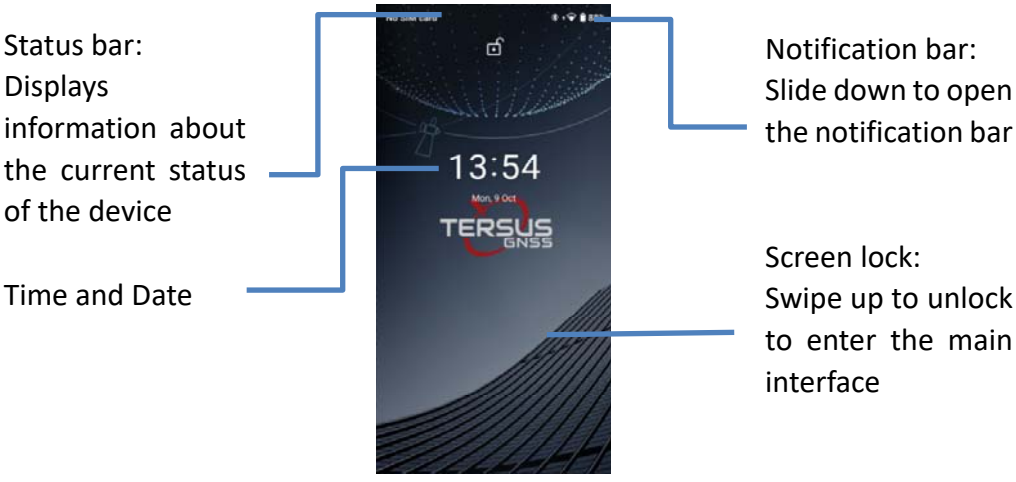
Power on, power off and reboot

1. Press and hold the power button of the device for 2 seconds in the off state and feel the vibration and then turn on the device.

2. Press and hold the power button for more than 2 seconds in the power-on state, and select shutdown or reboot according to the system pop-up menu.

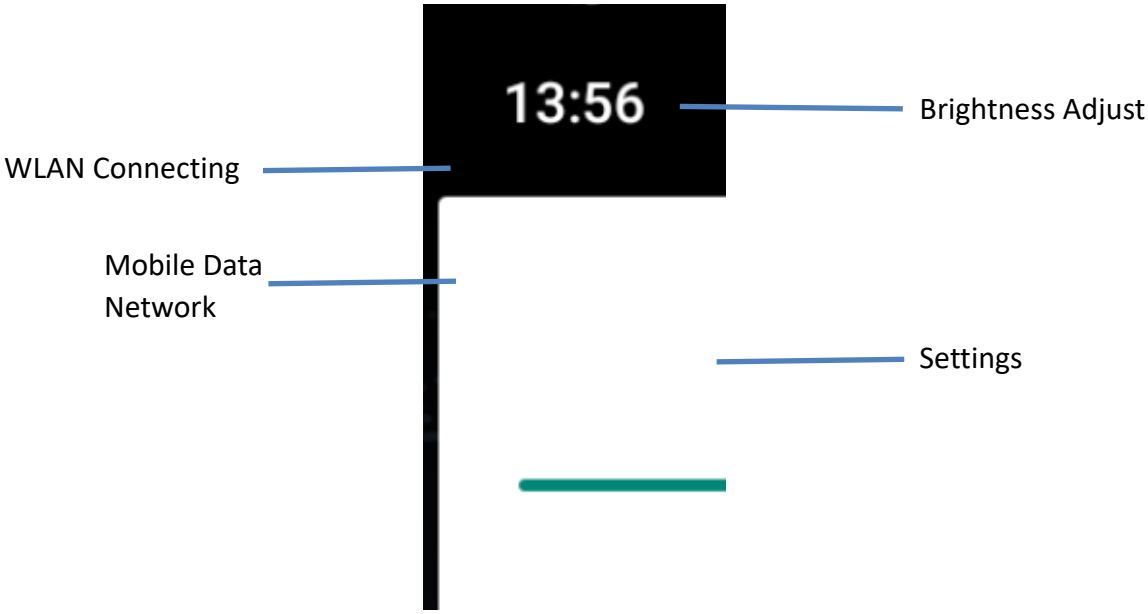
3. When the device is abnormal or inoperable, press and hold the power button for more than 15 seconds until the device restarts.

System lock screen interface

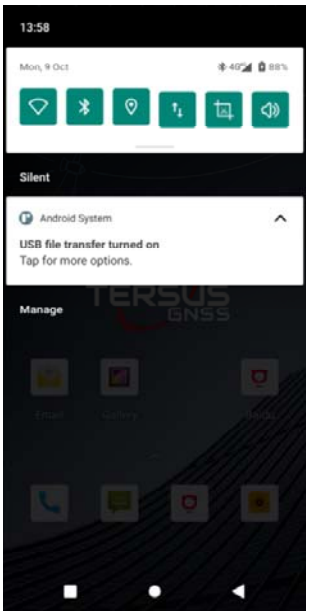


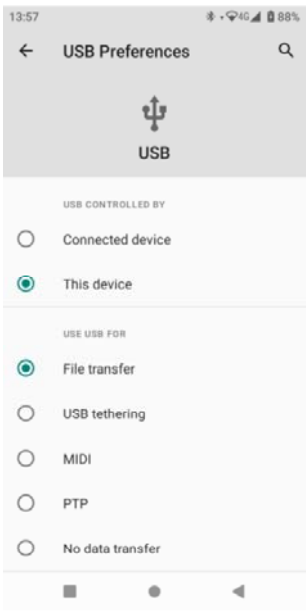
Notification bar

Touch the top of the screen and swipe down to open the notification bar, you can tap each shortcut icon to open and close the corresponding function such as WLAN, Bluetooth, etc.. Unprocessed notifications can be double-tapped to expand, touched to view, or swiped left or right to remove.



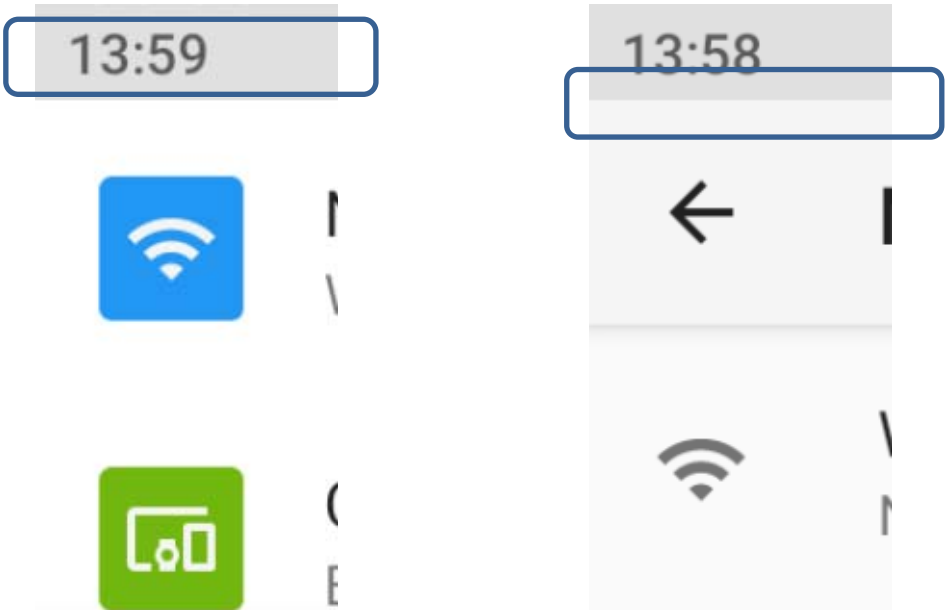
After connecting the USB, click to enter USB preferences interface to select mode.





WIFI connecting

Settings->Network and Internet->Wi-Fi->click on Turn on

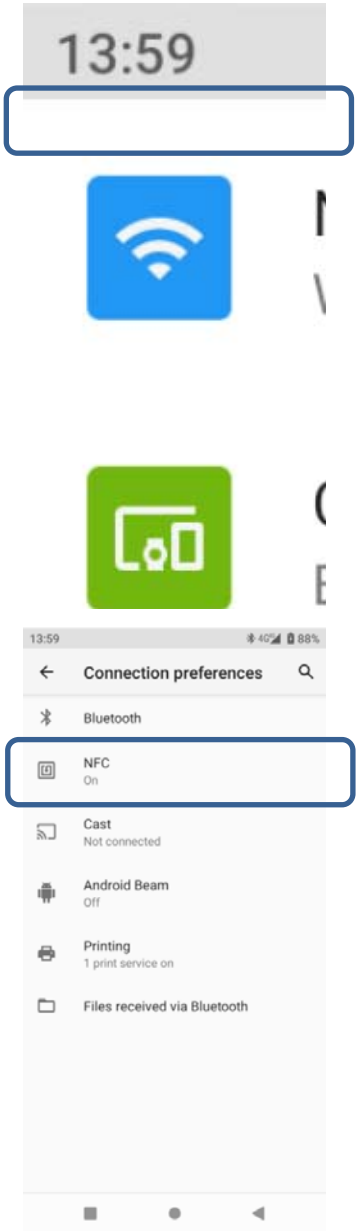


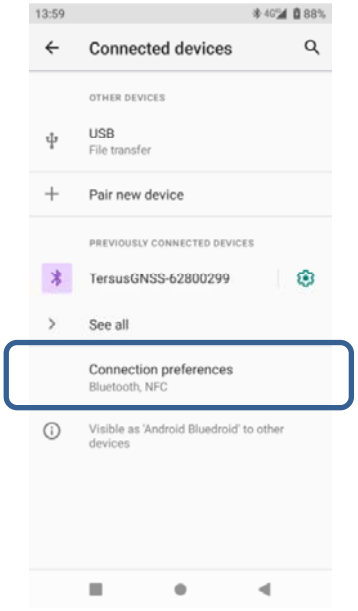
Mobile data networks connecting

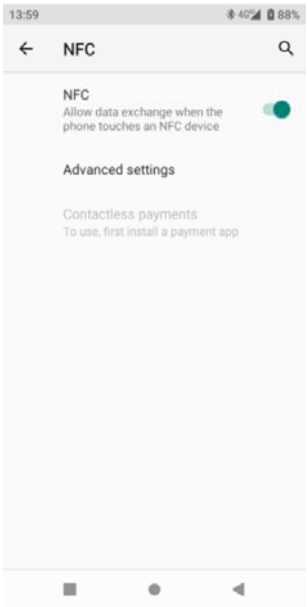
After the SIM card is installed correctly, the small 4G will be displayed in the corner below the mobile data icon as shown below to indicate that the mobile data is on and internet access is available.

NFC

Settings->Connected Devices->NFC->Tap to Enable





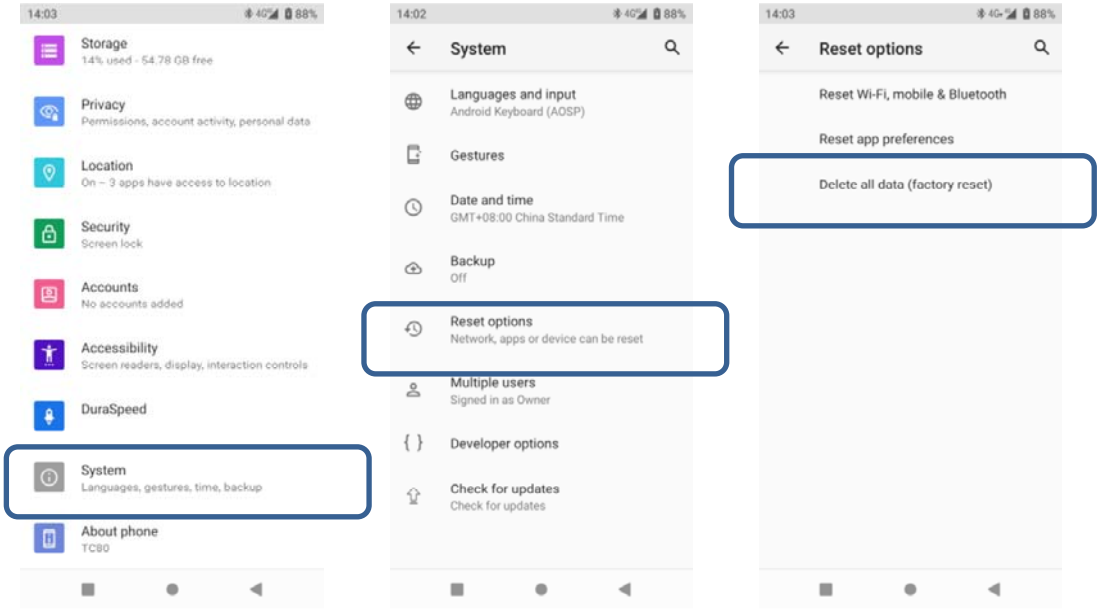


APN settings

Settings->Network and Internet->Mobile Network->Access Point Name (APN)->Tap "+" in the upper-right corner to set APN parameters->Tap the three dots in the upper-right corner to save after setting->Select the set APN->Reboot

Factory Reset

Settings->System->Reset Options->Delete All Data (Factory reset)



Product Parameters

Performance	
Processor	8-core 2.3GHz
OS	Android 11
Memory	6G+64G
Physical	
Size	221*77.7*14.9mm
Display	5.5", 720*1440
Touch Panel	5-point capacitive touch screen
Power Supply	7700mAh Support fast charging
Notification	Sound, vibration, LED alerts
Keypad	Numeric keypad
Audio	Speaker, volume 95dB±3
	MIC 1pc
Interface	
Type-C Port	Support OTG, fast charging
SD Slot	Maximum support 256G
SIM Slot	Standard Esim (sim1) and 1 nano sim card slot (sim2)
Communication	
WLAN	IEEE 802.11 a/b/g/n/ac 2.4G/5G Dual Band
WWAN	FDD-LTE B2/B5/B7/ TDD-LTE B38/B41 WCDMA B2/B5 GSM B5/B8
Bluetooth	BT5.0 (BLE)
GPS	GPS+BD+GLONASS
NFC	Support protocol: ISO14443A/B, ISO15693 Reading distance: 0-5cm
Environment	
Operating Temp	-20℃ - 55℃
Storage Temp	-30℃ - 70℃
Operating Humidity	5% - 95%
Drop specification	6 sides 1.5 meters two-wheel drop (concrete floor)
IP Rating	IP67
ESD	±15kV air discharge, ±8kV contact discharge
Sensor	
Geomagnetic, Acceleration, Light Sensor	
Data Acquisition	
Rear Camera	13M Auto Focus Camera
Warranty	
Whole device warranty 1 year, accessories warranty 0.5 year, lifetime maintenance	

Q&A

Q: Using IOT card, there is signal but no Internet access
A: Using IOT card needs to set APN parameters, follow the above APN setting method to set up, if you can't access the Internet after setting up APN successfully, please contact the IOT card supplier to confirm whether the card is available and provide the parameters of the corresponding card to set up.

Contact Us

Email: support@tersus-gnss.com
Website: www.tersus-gnss.com

FCC Statement

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

This device complies with part 15 of the FCC Rules. Operation is subject to the following two conditions:
(1) This device may not cause harmful interference, and
(2) This device must accept any interference received, including interference that may cause undesired
operation.

Note: This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:
—Reorient or relocate the receiving antenna.
—Increase the separation between the equipment and receiver.
—Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.

—Consult the dealer or an experienced radio/TV technician for help.

RF Exposure Statement：

This device meets the government's requirements for exposure to radio waves. This device is designed and manufactured not to exceed the emission limits for exposure to radio frequency (RF) energy set by the Federal Communications Commission of the U.S. Government.

The exposure standard for wireless devices employs a unit of measurement known as the Specific Absorption Rate, or SAR. The SAR limit set by the FCC is 1.6 W/kg. *Tests for SAR are conducted using standard operating positions accepted by the FCC with the device transmitting at its highest certified power level in all tested frequency bands. Although the SAR is determined at the highest certified power level, the actual SAR level of the device while operating can be well below the maximum value. This is because the device is designed to operate at multiple power levels so as to use only the poser required to reach the network. In general, the closer you are to a wireless base station antenna, the lower the power output.

The highest SAR value for the device as reported to the FCC when tested for use at the ear is 1.13W/kg and when worn on the body, as described in this user guide, is 1.14W/kg (Body-worn measurements differ among devices, depending upon available enhancements and FCC requirements.) While there may be differences between the SAR levels of various devices and at various positions, they all meet the government requirement.

For body worn operation, this device has been tested and meets the FCC RF exposure guidelines for use with an accessory that contains no metal and the positions the handset a minimum of 1.0 cm from the body . Use of other enhancements may not ensure compliance with FCC RF exposure guidelines. If you do not use a body-worn accessory and are not holding the phone at the ear, position the handset a minimum of 1.0 cm from your body when the device is switched on at its highest certified power level in all tested frequency bands.

The FCC has granted an Equipment Authorization for this device with all reported SAR levels evaluated as in compliance with the FCC RF exposure guidelines. SAR information on this device is on file with the FCC and can be found under the Display Grant section of http://www.fcc.gov/oet/fccid after searching on FCC ID: 2AMDJ-TC80