



## Tera P160 Mobile Data Terminal User Manual

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### Tera P160 Mobile Data Terminal User Manual



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## About the Terminal Features

### About the Terminal

The P160 is a series of Android™ powered smart terminals designed to excel in data capture, data processing, and wireless communication. High reliability and expandability makes it an ideal choice for businesses seeking auto and accurate data collection solutions across various industries. The P160 offers a comprehensive range of premium options, providing flexibility for operators to tailor the device to their specific needs.

With the P160, deploying solutions becomes significantly easier, complexity is reduced, and maintenance efforts are minimized, offering substantial benefits to enterprises. This versatile device is built to meet industrial-level IP65 (IEC sealing) standards, making it suitable for a wide range of applications, including railway inspection, road parking tolls, vehicle inspection, logistics express, power inspections, warehousing management, and chain retail.

Whether your mobile operators work indoors or outdoors, the P160 ensures that your business remains highly efficient and connected. It adheres to industrial standards and supports various mobile solutions. Equipped with a high-performance Cortex A-53 2.0 GHz octa-core processor, this device streamlines task flow, enhances work efficiency, and reduces customer response times, ultimately delivering improved customer care services.

The P160 incorporates worldwide band 4G technology, enabling multi-channel data and voice communication for real-time data efficiency and seamless communication.

With the P160, you can expect a substantial return on investment (ROI) for your business operations.

### Mobile Terminal Features

The device's front and back views are illustrated below:



1. Power Button
2. Scan Button
3. Custom Button
4. Settings Button
5. Scan Engine
6. Flashlight
7. Camera
8. Battery Latch
9. Laser Safety Label Location

### Buttons and Description

Buttons	Description
Power Button	<p>Press and release the Power Button to turn on/off the terminal screen. Press and hold the button for approximately 3 seconds, and then release to view the options menu.</p> <ul style="list-style-type: none"> <li>• Power Off</li> <li>• Restart</li> <li>• Emergency</li> </ul>
Scan Button	Press the right or left Scan Button to trigger the scanner.
Custom Button	Can be configured to perform specific functions
Fn Button	Activate the alternate alpha and function characters (shown on the keypad in orange).
Num Button	Activate the alternate number characters (shown on the keypad in white)

## Turn on/off the Terminal

To turn on the device, press and hold the Power button located at the top of the device until you feel a vibration and see the boot animation on the screen. To turn off the device, press and hold the Power button for 3 seconds, then release it to access the options menu. Tap the “Power Off” option to shut down the device.



## About the battery

The terminal uses a rechargeable Li-ion battery as its power source. Several factors determine the life of the battery, such as screen brightness, screen timeout, network option, and extreme temperature.

- Expected Battery Life: Under typical conditions, the battery can retain up to 80% of its original capacity after approximately 300 complete charge cycles. A charge cycle involves the process of both charging and discharging the battery as needed for device usage.
- If you store the battery for several months, recharge the battery periodically to keep it at peak performance.

- As lithium-ion batteries chemically age, the amount of charge they can hold diminishes, resulting in shorter amounts of time before a device needs to be recharged.
- Do not modify the battery or attempt to insert foreign objects into it.
- Do not solder directly to the battery contacts.
- Do not drop the battery or apply mechanical shocks or pressure to it.
- Do not disassemble or open, crush, bend or deform, puncture, shred or burn the battery.
- Do not immerse the battery pack in water or get the battery pack wet before proper installation in the computer.

#### **Battery Storage:**

Charge or discharge the battery to approximately 50% of capacity before storage.

Charge the battery to approximately 50% of capacity at least once every six months.

Remove the battery and store it separately from the product.

Store the battery at temperatures between 5°C~20°C (41°F~68°F).

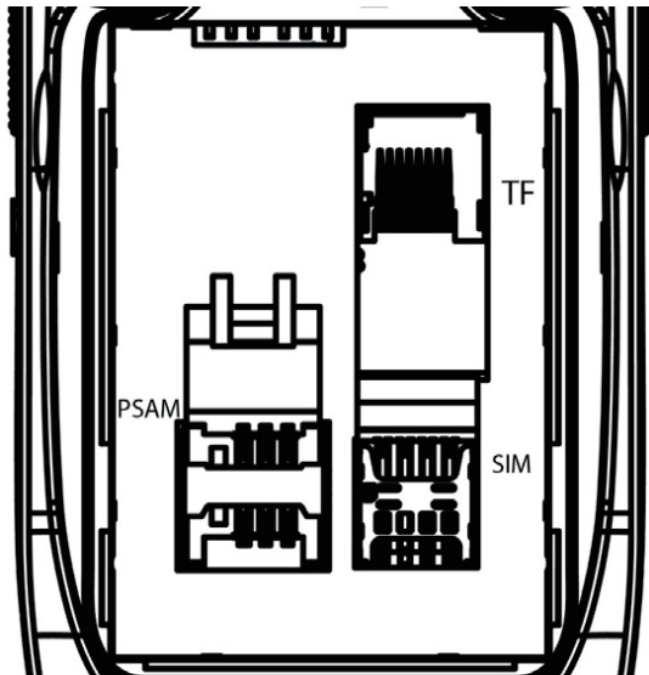
#### **Caution:**

Improper battery replacement or incompatible device usage may result in risk of burns, fire, explosion, or other hazard. Dispose of lithium-ion batteries according to local regulations. Risk of fire and burns if improperly handled. Do not open, crush, heat above 60°C (140°F), or incinerate.

### **Install Cards and Charge the Terminal**

#### **Install Micro SD, SIM and PSAM Cards**

The positions of the card slots are indicated as follows:



**Note:** To install the cards, you should first remove the battery.

#### **Remove the battery:**

1. Press and hold the Power button until the options menu appears.
2. Tap Power off.
3. Unlock the battery cover. Turn the battery latches to the right positions.

4. Lift the battery cover and remove it.
5. Use the tab on the bottom of the battery to lift and remove it from the terminal.

## Charge the Terminal

This device comes with a USB Type-C port, and it is recommended to charge the device using the provided original USB cable and power adapter.

Begin by connecting the USB cable to the power adapter, and then connect it to the terminal.

The terminal will start charging automatically, and the LED Indicator will display the current charge status.

You also have the option of using the original USB Type-A to USB Type-C cable to charge the terminal from a host device, such as a laptop or desktop computer.








However, please ensure that the connected host device can supply a minimum power output of 5V and 0.5A to the terminal.

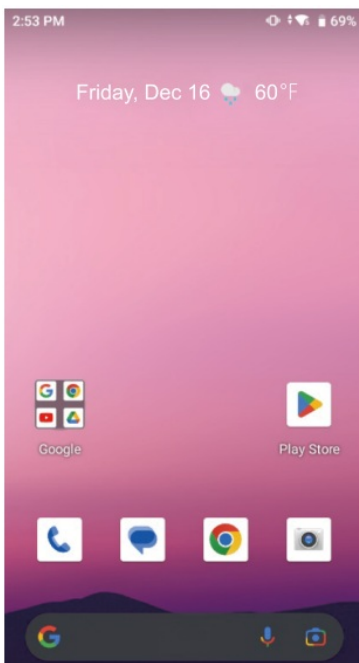
**(Note:** Avoid using third-party cables or adapters to charge the terminal for optimal performance and safety.).

## Use the Phone

### Make a Phone Call

Once the phone is activated, you can make a phone call.

1. Tap  in the favorites tray to open the phone app.
2. Use one of the methods below to enter the telephone number you want to call.
3. Tap  and use the on-screen dialer.
  - Select a person on your saved contact list 
  - Select a favorite on your speed dial list 
  - Select a number from the recent calls list 
4. Tap call 
5. To end the call, tap 

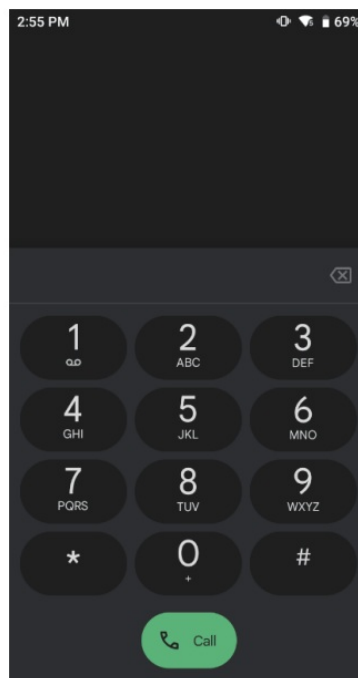
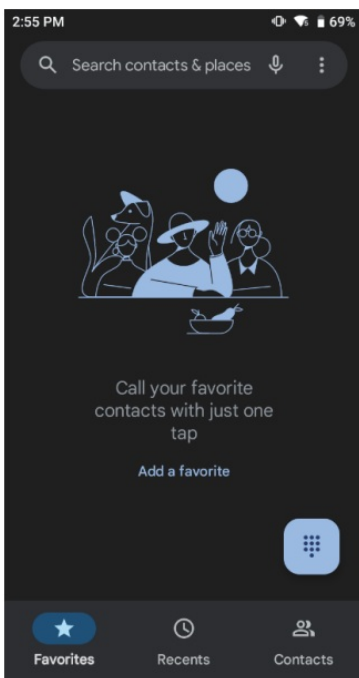


— Notification /Status Bar


— Home Screen Panel

— Favorites Tray

— Search Bar

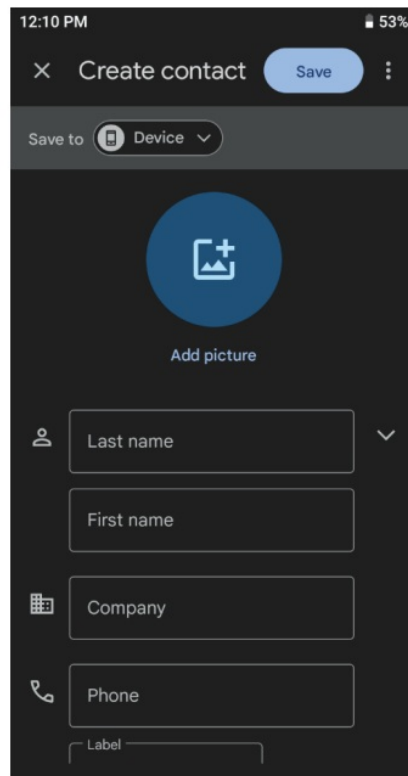
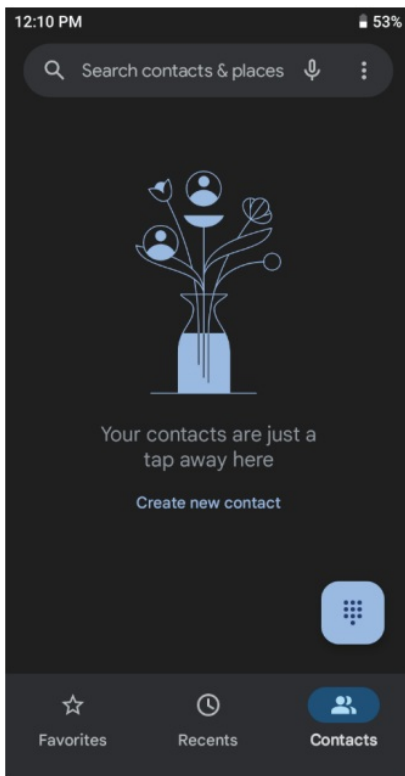


## Create and Save a Contact



1. Tap  to create new contact.
2. Tap the lighter text "Create new contact"
3. Choose where to save.

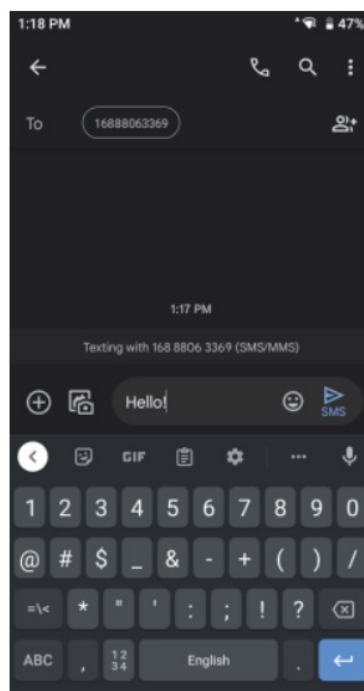
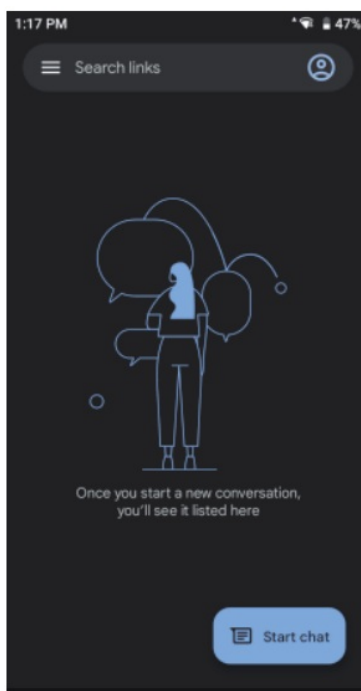
You may save the contact to the device or to your Google account.

4. Fill the profile and tap "Save".



## Send a Message

1. Open the Messages app 
2. Tap Start Chat.
3. In "To," enter the names, phone numbers, or email addresses that you'd like to message. You can also pick from your top contacts or your whole contact list.
4. Tap the message box.
5. Enter your message.
6. When you're done, tap Send .



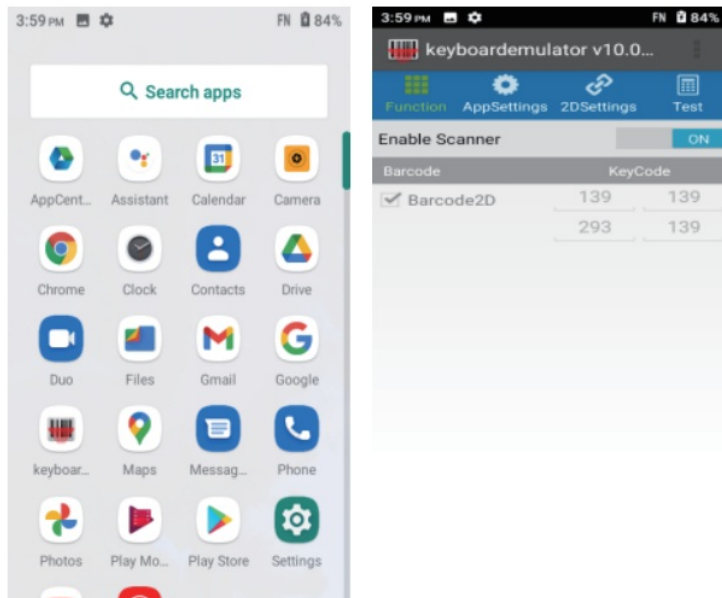
## Change the Scan Engine Settings



To change the settings of the scan engine, you need to launch the Keyboard emulator application. There are four tabs in the keyboard emulator app and several hidden features.

### Function Tab

1. Tap the checkbox in front of Barcarole option.
2. Toggle the Enable Scanner Switch to On position.
3. Press the trigger on the handle or side buttons to scan.

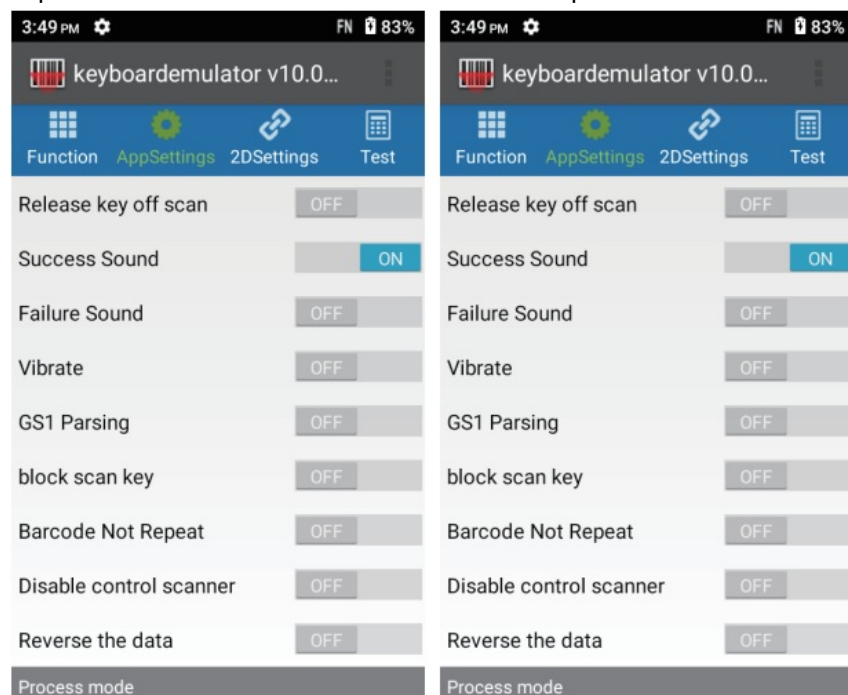


### APPSettings Tab

There are 9 basic settings in this section. You may enable or disable them in accordance with your needs.

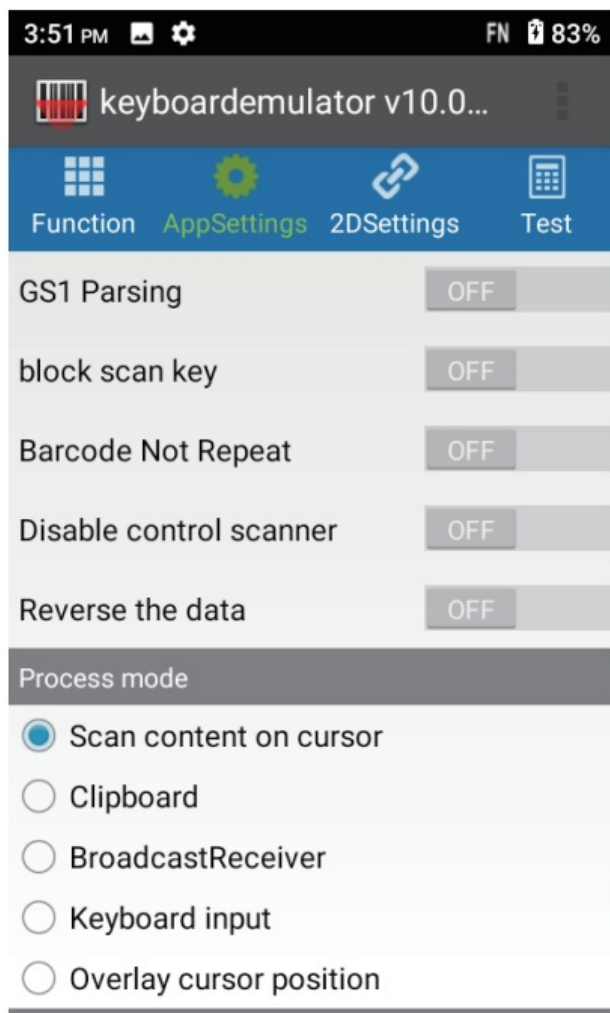
#### Scan Modes, Sound, Vibration and Parsing

Tap the ON/OFF switch to enable/disable the options.



### Proccess mode

To apply the option to the scanner, tap the round checkbox in front of the option.



Scan content on cursor: the scanned data will be transmitted where the cursor is.

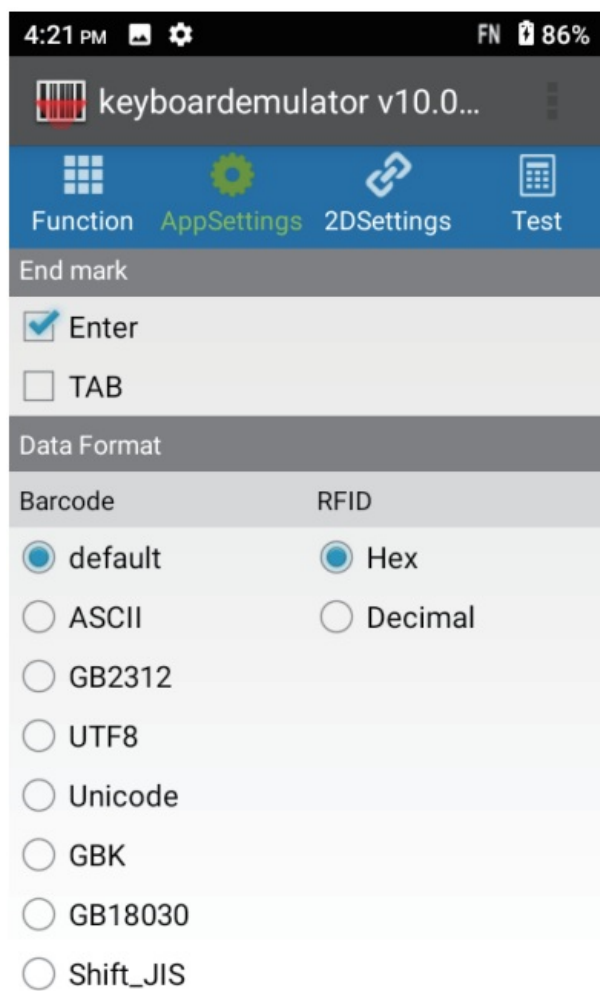
**Clipboard:** the scanned data will be transmitted to clipboard and you can paste it anywhere you need.

broadcast Receiver: the scanned data will be transmitted via broadcast intent. Keyboard input: the scanner will input the scanned data as if it were typed.

### End mark

An end mark is equivalent to a terminator/ a termination suffix.

Tab the checkbox in front of an option to apply it as an End mark.



**Enter:** If Enter is selected, the application will add an Enter after each scan.

**TAB:** If TAB is selected, the application will add a tabulator after each scan.

**Space:** If SPACE is selected, the application will add a space after each scan.

#### Data format

For the bar code scanner to scan bar codes correctly, the data format option on the bar code scanner must match the encoding type of the bar codes.

4:21 PM 86%

keyboardemulator v10.0...

Function AppSettings 2DSettings Test

End mark

☒ Enter

☐ TAB

Data Format

Barcode	RFID
<input checked="" type="radio"/> default	<input checked="" type="radio"/> Hex
<input type="radio"/> ASCII	<input type="radio"/> Decimal
<input type="radio"/> GB2312	
<input type="radio"/> UTF8	
<input type="radio"/> Unicode	
<input type="radio"/> GBK	
<input type="radio"/> GB18030	
<input type="radio"/> Shift_JIS	

## Data Editing

4:21 PM 86%

keyboardemulator v10.0...

Function AppSettings 2DSettings Test

Prefix

Suffix

Remove the number of characters from the front

Remove the number of characters from the back

Filter data

Continuous scan

Barcode

☐ Continuous scan

Time out  s Interval  ms

UHF

☐ Continuous scan

**A.** To add a prefix, just type the desired characters in the empty text field behind the option.

For example, to program a \* sign as a prefix, just type the \* sign in the empty test field.

**B.** To add a suffix, just type the desired characters in the empty text field behind the option.

For example, to program a \* sign as a suffix, just type the \* sign in the empty test field.

**C.** To remove characters from the start of a barcode, just type the desired digit in the empty text field behind the option.

For example, if you need to drop the first 2 digits of a bar code, just type 2 in the text field behind the Remove the front number of characters option.

**D.** To remove characters from the end of a bar code, just type the desired digit in the empty text field behind the option.

For example, if you need to drop the last 7 digits of a bar code, just type 7 in the text field behind the Remove the back number of characters option.

**E.** To send only the defined characters from the data in a bar code, you should select the number of characters in accordance with the length of the bar code which has to be amended. First, type the position from which the scanner retain the reset characters; second, type the desired length in the empty text filed behind the Length option.

For example, if you have the following bar code: “6970479745174”, and you just want the middle part of the code, say, 70479, you should type 2 into the Sub string Index field, then type 5 into the Length field. The letter 2 and 5 tell the program to remove the first 2 characters of a barcode and retain the next 5 characters.

If you type 5 in the index field and 6 in the length field, the output will be 797451.

**F.** To remove specified character(s), just type the character(s) into the empty text field behind the Filter data option.

(For example, if you have the following bar code: “6970479745174” , you can make the output “67047745174” by typing the numeric letter 9 into the text field or make the output “ 60479745174” by typing the numeric letters 97 into the text field.

## Continuous scan

The screenshot shows the 'keyboardemulator v10.0...' app interface. At the top, there's a status bar with the time 4:21 PM, battery level 86%, and a 'FN' button. Below the title bar, there are four tabs: 'Function', 'AppSettings' (selected), '2DSettings', and 'Test'. The 'AppSettings' tab contains several input fields: 'Prefix', 'Suffix', 'Remove the number of characters from the front' (set to 0), 'Remove the number of characters from the back' (set to 0), and 'Filter data'. Below these is a section titled 'Continuous scan' with a 'Barcode' label and a checkbox for 'Continuous scan'. Underneath, there are 'Time out' (set to 5 s) and 'Interval' (set to 0 ms) fields. At the bottom, there's a section titled 'UHF' with a checkbox for 'Continuous scan'.

When the checkbox in front of the “Continuous Scan” text is selected, the scanner will operate continuously.

## Factory data reset

If you wish to reset the keyboard emulator application settings, please tap the Factory data reset button.

## Specifications

### Mechanical

Dimensions	157.6mm*73.7mm*29mm/6.2in*2.9in*1.1in
Weight	355g / 12.520z (battery included)
Screen	4" WVGA (480*800), 16.7M colors
Keyboard	3 TP soft keys, numeric keypad, 3 side buttons
Battery	Main battery. (rechargeable li-ion polymer, 3.7V, 4200 mAh)
SIM Tray	1 PSAM slot, 1 SIM slot, 1 Micro SD slot
Audio	0.5W watt
Camera	13MP Autofocus with flash

## System Architecture

CPU	Cortex A-53 2.0 GHz octa-core
Operating System	Android 10
Memory	3GB(RAM) + 32GB (ROM)
Interface	Type-C, OTG
Storage Expansion	Micro SD card (Up to 128GB)

## Environmental

Operating Temperature	-4°F to 122°F/ -20°C to 50°C
Storage Temperature	-40°F to 158°F / -40°C to 70°C
Humidity	5%RH-95%RH (Non-condensing)
Sealing	IP65, IEC compliance
Drop	Withstand multiple 2 m / 6.56 ft. drops to concrete at room temperatures

## Wireless Connectivity

WAN	2G/3G/4G
WLAN	Support 802.11 a/b/g/n/ac/d/e/h/i/k/t/v, 2.4G/5G dual-band, IPV4, IPV6, 5G PA; Fast roaming: PMKID caching, 802.11r, OKC Operating Channels: 2.4G(channel 1~13), 5G(channel 36,38,40,42,44,46,48,52,56,60,64,100,104,108,112,116,120,124,128,132,136,140,149,153,157,161,165, depends on local regulations Security and Encryption: WERWPA/WPA2-PSK (TKIP and AES), WAPIPSK—EAP-TTLS, EAP-TLS, PEAP-MSCHAPv2, PEAP-LTS, PEAP GTC,etc
WPAN	V2.1+EDR, 3.0+HS and V4.1+HS, BT5.0

## Data Collection

Scan Engine	Zebra SE4710 2D Scan Engine
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## Development Environment

Programming Language	Java
Development Tools	Eclipse/Android Studio

Please do not hesitate to contact us if you have any questions.

### Important Notice:

**When contacting the Tera Support, please have the following information available:**

- Serial number of the unit (found on manufacturing label)
- Model number or product name (found on manufacturing label)

### Official Customer Service

**Email Address:** [info@tera-digital.com](mailto:info@tera-digital.com)

**Cell:** +1 (909)242-8669

**Whatsapp:** +1 (626)438-1404

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<https://www.tera-digital.com>



# Tera

Documents / Resources

<div><div><div>TS-UM-P160</div><div><div>Tera</div><div>Model: P160</div><div>Mobile Data Terminal</div></div><div><div>User Manual</div><div>Ver. 2.0 1. 01</div></div><div></div></div></div>	<div><div><a href="#">Tera P160 Mobile Data Terminal</a> [pdf] User Manual</div><div>P160 Mobile Data Terminal, P160, Mobile Data Terminal, Data Terminal</div></div>
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References

- [User Manual](#)

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