



# **N650**

## **User Manual**

Revision: R00 (December 2019)

**Trademark**

All brand and product names are trademarks or registered trademarks of their respective companies.

**Disclaimer**

Specifications and documents are subject to change without notice.

**Note**

Not all models are available in all regions. Not all features are available on all models.

Depending on the specific model purchased, the colour and look of your device and accessories may not exactly match the graphics shown in this document. The screenshots and other presentations shown in this document are for reference only.

# Table of Contents

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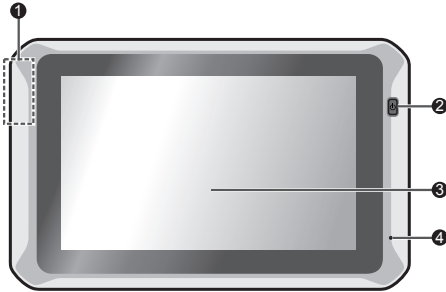
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# Device Basics

## Getting to Know Your Device

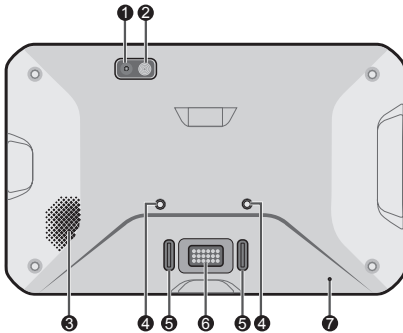
### Front-Side View



- ❶ NFC sensor\*
- ❷ Power button
- ❸ Touch screen
- ❹ Microphone

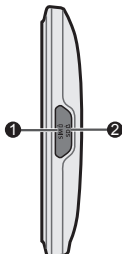
\*For selected models only

### Rear-Side View



- ❶ Rear camera lens
- ❷ Flash
- ❸ Speaker
- ❹ Screw hole for cradle
- ❺ Socket for cradle
- ❻ Dock connector
- ❼ Microphone

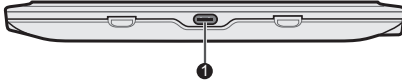
### Right-Side View



- ❶ Micro-SIM card slot\*
- ❷ Memory card slot

\*For selected models only. To use cellular services, you must have a subscription to the function with a mobile phone network service.

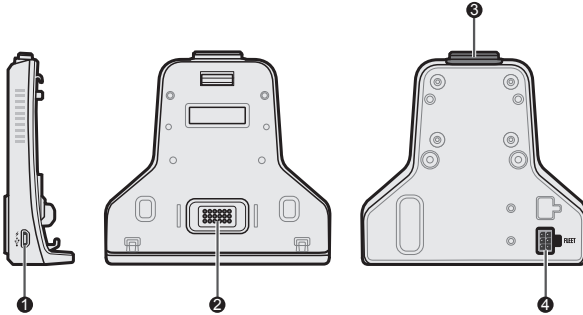
## Bottom-Side View



- 1 USB 3.0 Type C connector / Micro-USB connector\*

\*The provided connector may vary by models.

## Cradle



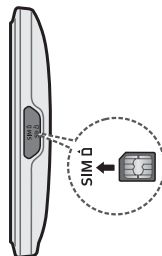
- 1 Micro-USB connector
- 2 Dock connector
- 3 Release button
- 4 Fleet port

## Using a Micro-SIM Card

The device uses a Micro-SIM card.


Open the cover on the right side of the device to locate the Micro-SIM card slot. With its label side facing the rear side of the device, hold the Micro-SIM card by the edges and gently insert it into the slot. Note that inserting the card in the reverse direction may cause damage.

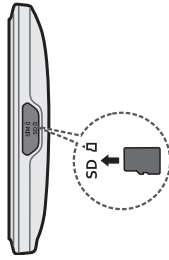
To remove a card, gently push the top edge of the card inwards to release it, and pull it out of the slot.



## Using a Memory Card

Open the cover on the right side of the device to locate the memory card slot. With its label side facing the rear side of the device, hold the MicroSD card by the edges and gently insert it into the slot. Note that inserting the card in the reverse direction may cause damage.

To remove a MicroSD card, first unmount it from the device by tapping **Settings** on the Home screen → **Storage** → . Then gently push the top edge of the card inwards to release it, and pull it out of the slot.



- ❗ Do not apply pressure to the center of the memory card.
- ❗ Inserting the card in the reverse direction may cause damage.
- ❗ The manufacturer does not guarantee the product's compatibilities with the storage cards from all manufacturers.
- ❗ If you encounter access problems with your memory card, please visit the website [https://www.sdcard.org/downloads/formatter\\_4/](https://www.sdcard.org/downloads/formatter_4/) and use the "SD Memory Card Formatter 5.0 for SD/SDHC/SDXC" tool to format your memory card.

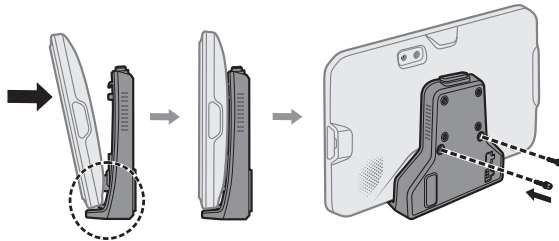
## Using the Cradle

Depending on your model, a cradle and/or a mount may be provided for your device. Follow the illustrations to mount your device.

- ❗ The Micro-USB connector on the cradle is intended only for charging, not for data transfer.

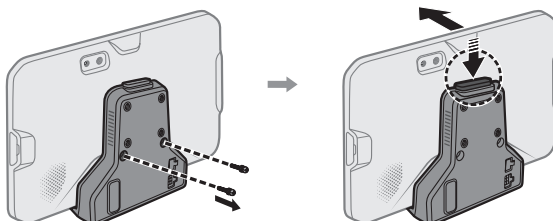
## Installing the Cradle

1. Line up and connect the dock connector on the cradle to the dock connector on the device. Magnets are incorporated to ensure proper alignment.
2. If needed, you can secure the device to the cradle with 2 screws.



## Removing the Cradle

1. Remove the 2 screws (if installed) securing the device to the cradle.
2. While pressing and holding the release button on the cradle, pull the top of the device away and lift the device out of the cradle in an upward motion.



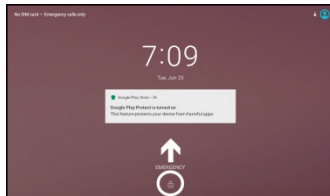
# Turning the Device On and Off

Use the USB cable to connect to a power source to power the device.

The device's battery is designed as a backup power source for short-term use only in the event when the vehicle's power system is not available. It is not to be used as a sole source of power for prolonged periods. Connect the device to an external power source whenever you can.

## Turning On

1. The device turns on automatically when it is powered. Wait for the boot screen to display.
2. The Home screen will display and the device is in Lock mode by default. Drag the Lock icon (🔒) upwards to unlock. The device is ready for use.



## Sleep Mode

Your device will automatically switch off the screen after 1 minute (by default) of inactivity. You can manually switch off the screen by pressing the Power button briefly.

To resume the screen, press the Power button briefly and then unlock the device by dragging the Lock icon (🔒) upwards.

## Aeroplane Mode

When you are in an aeroplane or in the area where data transferring is not allowed, enable Aeroplane mode. You will be able to use many of your device's applications, but all wireless radios, including wireless networks and Bluetooth, on the device are turned off – it cannot send or receive data.

To enable Aeroplane mode: tap **Settings** on the Home screen → **Network & internet** → **Advanced**, and tap the **Aeroplane mode** switch to turn it on. The ✈️ icon in the status bar indicates that Aeroplane mode is on.

📄 You can enable WiFi and Bluetooth in Aeroplane mode.

To disable Aeroplane mode: tap **Settings** on the Home screen → **Network & internet** → **Advanced**, and tap the **Aeroplane mode** switch to turn it off.

## Restarting the Device

You may need to reset the device when the device is running slower or improperly. Press and hold the Power button to display the options menu and tap **Restart** to restart the device.

## Turning Off

To turn off the device, press and hold the Power button to display the options menu and tap **Power off**.

## Shutting Down

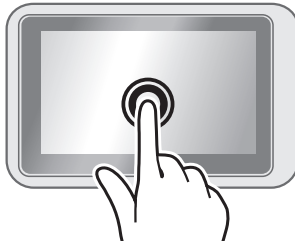
If the device stops responding, you may need to shut down the device by pressing and holding the Power button for 8 seconds.

# Getting Started

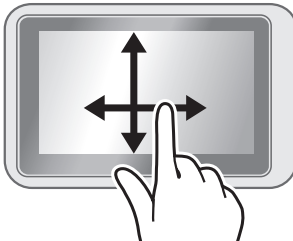
## Using the Touch Screen

To operate your device, touch the screen with your finger. You can perform the following actions:

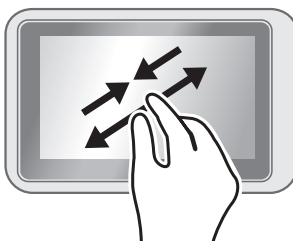
- **Tap:** Touch the screen once with your finger to open items or select on-screen buttons or options.
- **Tap and hold:** Tap and hold on the desired item to open the pop-up menu that contains the available options for the item.



- **Drag:** Tap and hold on the item and then move it to the target position without releasing your finger.
  - **Slide/Swipe:** Drag your finger vertically or horizontally across the screen.
    - Drag to the left/right to switch to the next/previous item on the list.
    - Drag to the top/bottom to scroll up/down the screen.
- ⓘ Not all slide gestures are applicable to all applications.



- **Two-finger gestures:** Move your fingers apart or together on the screen to zoom in or out while viewing a picture or a web page.
- ⓘ Not all two-finger gestures are applicable to all applications.




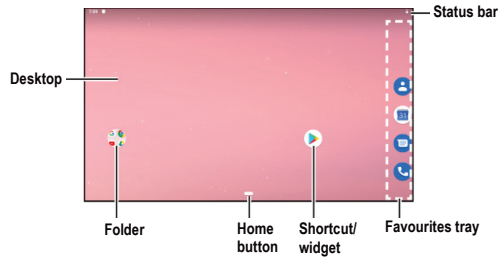


# Home Screen

The Home screen is your starting place for tasks, providing quick access to frequently used applications and settings.

To display the app list, swipe up from the bottom of the screen with one finger.

To display the Home screen, tap  at any time.




# Customising Your Device

You can easily customise the device for personal settings through the Settings menu, such as personalising the Home screen, changing the display and sound settings, configuration the connection settings, and more.

To access the Settings menu, tap **Settings** on the Home screen.

## Cellular Data Connection


 This feature is not available on all models.

To use cellular services, you must have a subscription to the function with a mobile phone network service. In most cases, the settings of the cellular services are installed automatically.

To turn on or off the cellular services:


1. Tap **Settings** on the Home screen → **Network & internet** → **Data usage**.
2. Tap the **Mobile data** switch to turn it on or off.

If you are on a limited data allowance, you can monitor the data usage on the device by tapping **Settings** on the Home screen → **Network & internet** → **Data usage**.


 Turn off the cellular services when not in use to save battery power.

## Wireless Network Connection

To use wireless local area networks (WIFI) on your device, you need access to a wireless access point (AP) or "hotspot."

 The coverage of the WIFI signal can be up to 300 feet (100 metres). However, it varies greatly due to the type of infrastructure, and other objects through which the signal passes.

### Connecting to a Wireless Network

1. Tap **Settings** on the Home screen → **Network & internet** → **WIFI**.
2. Tap the WIFI switch to turn it on. The device will automatically scan for available wireless networks.
3. Tap a wireless network to connect.
4. If you select an open network, you will be automatically connected to the network. If you select a secured network, enter the key and then tap **CONNECT**.
5. When your device is connected to a wireless network, the WIFI icon () will appear in the status bar.

The next time your device connects to a previously accessed secured wireless network, you will not be prompted to enter the key again, unless you reset the network settings or reset your device to its factory default settings.

 Turn off the WIFI function when not in use to save battery power.

### Removing a Remembered Network

1. Tap **Settings** on the Home screen → **Network & internet** → **WIFI**.

2. Tap and hold the network to remove on the list, and select **Forget network**.

## Bluetooth

Bluetooth is a short-range wireless communications technology that allows Bluetooth-enabled devices to exchange information over a distance of about 30 feet (10 metres) without requiring a physical connection.

### Pairing with Another Bluetooth Device

1. Make sure that the Bluetooth function of the other device is turned on.
  2. Tap **Settings** on the Home screen → **Connected devices** → **Pair new device**.
  3. The device will automatically scan for available Bluetooth devices.
  4. Tap the desired device from the list to initiate pairing.
  5. Make sure that the same passkey is displayed on your device and the other device, and then tap **PAIR**.
- ⓘ Turn off the Bluetooth function when not in use to save battery power.

### Disconnecting a Bluetooth Connection

1. Tap **Settings** on the Home screen → **Connected devices**.
2. Tap the desired paired device.
3. When prompted to disconnect, tap **OK**.

# Reference

## Caring for the Device

Taking good care of your device will ensure trouble-free operation and reduce the risk of damage to your device.

- Keep your device away from excessive moisture and extreme temperatures.
- Avoid exposing your device to direct sunlight or strong ultraviolet light for extended periods of time.
- Do not place anything on top of your device or drop objects on your device.
- Do not drop your device or subject it to severe shock.
- Do not subject your device to sudden and severe temperature changes. This could cause moisture condensation inside the unit, which could damage your device. In the event of moisture condensation, allow the device to dry out completely before use.
- The screen surface can easily be scratched. Avoid touching it with sharp objects. Non-adhesive generic screen protectors designed specifically for use on portable devices with LCD panels may be used to help protect the screen from minor scratches.
- Never clean your device with it powered on. Use a soft, lint-free cloth to wipe the screen and the exterior of your device.
- Do not use paper towels to clean the screen.
- Never attempt to disassemble, repair or make any modifications to your device. Disassembly, modification or any attempt at repair could cause damage to your device and even bodily injury or property damage and will void any warranty.
- Keep your device and its accessories out of the reach of small children or animals.
- Do not store or carry flammable liquids, gases or explosive materials in the same compartment as your device, its parts or accessories.
- To discourage theft, do not leave the device and accessories in plain view in an unattended vehicle.
- Do not leave the device and its accessories in a vehicle in direct sunlight. Overheating may damage the device.
- The device (excluding accessories) is protected against splashes, water and dust. When tested under controlled laboratory conditions, the device is compliant with the IP67 rating of the IEC 60529 standard. The manufacturer guarantees this grade provided all jack covers are properly and securely closed. Immersion in water or water-pressure such as washing the unit with running water may cause damage to the unit and voids warranty. Normal wear might decrease resistance. The device should not be operated in water.

## Regulatory Information

For regulatory identification purposes, the series is assigned a model number of N650.

Marking labels located on the exterior of your device indicate the regulations that your model complies with. Please check the marking labels on your device and refer to the corresponding statements in this chapter. Some notices apply to specific models only.

5GHz band (W52,W53): Indoor use only

## RF Exposure Information (SAR)

This device has been tested and meets applicable limits for Radio Frequency (RF) exposure. Specific Absorption Rate (SAR) refers to the rate at which the body absorbs RF energy. Tests for SAR are conducted using standard operating positions with the device transmitting at its highest certified power level in all tested frequency bands.

## Bluetooth



## Safety Precautions

- When using the device, note that the ambient temperature should be below 45°C (113°F).
- To prevent possible hearing damage, do not listen at high volume levels for long periods of time.

## About Charging

- Use only the charger supplied with your device. Use of another type of charger will result in malfunction and/or danger.
- This product is intended to be supplied by a LISTED Power Unit marked with "LPS", "Limited Power Source" and output rated + 5 V dc / 2.0 A.
- Use a specified battery in the equipment.

## About the Charger

- Do not use the charger in a high moisture environment. Never touch the charger when your hands or feet are wet.
- Allow adequate ventilation around the charger when using it to operate the device or charge the battery. Do not cover the charger with paper or other objects that will reduce cooling. Do not use the charger while it is inside a carrying case.
- Connect the charger to a proper power source. The voltage requirements are found on the product case and/or packaging.
- Do not use the charger if the cord becomes damaged.
- Do not attempt to service the unit. There are no serviceable parts inside. Replace the unit if it is damaged or exposed to excess moisture.

## About the Battery

- Use a specified battery in the equipment.
- CAUTION: This unit contains a Lithium Ion battery. The battery can burst or explode, releasing hazardous chemicals. To reduce the risk of fire or burns, do not disassemble, crush, puncture, or dispose of in fire or water.
- Important instructions (for service personnel only)
  - Caution: Risk of explosion if battery is replaced by an incorrect type. Dispose of used batteries according to the instructions.
  - Replace only with the same or equivalent type recommended by the manufacturer.
  - The battery must be recycled or disposed of properly.
  - Use the battery only in the specified equipment.

# Federal Communication Commission Interference Statement



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

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

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.

## Model: N650

Responsible Party Information:

Company Name: MiTAC Digital Corporation.

Company Address: 279 E. Arrow Highway, Suite #201, San Dimas, CA 91773, U.S.A.

Tel: 1-408-615-5100

Internet Contact info: <http://mic-holdings.com/index.html>

## IC

This device contains licence-exempt transmitter(s)/receiver(s) that comply with Innovation, Science and Economic Development Canada's licence-exempt RSS(s). Operation is subject to the following two conditions:

- (1) This device may not cause interference.
- (2) This device must accept any interference, including interference that may cause undesired operation of the device

Cet appareil contient des émetteurs / récepteurs exemptés de licence qui sont conformes aux RSS exempts de licence d'Innovation, Sciences et Développement économique Canada. Son fonctionnement est soumis aux deux conditions suivantes:

- (1) Cet appareil ne doit pas provoquer d'interférences.
- (2) Cet appareil doit accepter toute interférence, y compris les interférences pouvant entraîner un fonctionnement indésirable de l'appareil

CAN ICES-3(B)/NMB-3(B)

The device for operation in the band 5150–5250 MHz is only for indoor use to reduce the potential for harmful interference to co-channel mobile satellite systems.

Le dispositif pour un fonctionnement dans la bande 5150–5250 MHz est uniquement destiné à une utilisation en intérieur afin de réduire le potentiel d'interférences nuisibles aux systèmes de satellites mobiles co-canal

# CE

Spectrum and maximum power: BT 4dBm; Wi-Fi 2.4GHz 17dBm; Wi-Fi 5.2GHz 11dBm; Wi-Fi 5.8GHz 14dBm; GSM900 33dBm




Products with the CE marking comply with Radio Equipment Directive (Directive 2014/53/EU) - issued by the Commission of the European Community.

Compliance with these directives implies conformity to the following European Standards:

- EN 301 489-1/-17/-19
- EN 55032
- EN 55035
- EN 61000-3-2
- EN 61000-3-3
- ECE R10.05

The device is restricted to indoor use only when operating in the 5150 to 5350 MHz frequency range.

	AT	BE	BG	HR	CY	CZ	DK
	EE	FI	FR	DE	EL	HU	IE
	IT	LV	LT	LU	MT	NL	PL
	PT	RO	SK	SI	ES	SE	UK
	IS	LI	NO	CH	TR		

## Prevention of Hearing Loss



To prevent possible hearing damage, do not listen at high volume levels for long periods.

**Caution: risk of explosion if battery is replaced by an incorrect type. Dispose of used batteries according to the instructions**

**Caution: Use only the adapter supplied with the device. Adapter shall be installed near the equipment.**

## RF Exposure Information (SAR)

This device has been tested and meets applicable limits for Radio Frequency (RF) exposure. Specific Absorption Rate (SAR) refers to the rate at which the body absorbs RF energy. Tests for SAR are conducted using standard operating positions with the device transmitting at its highest certified power level in all tested frequency bands. The panel of the device was tested with a separation distance of 25 mm. Always keep the panel away from your body to ensure exposure levels remain at or below the as-tested levels.

## **RF Exposure Information (MPE)**

This device meets the EU requirements and the International Commission on Non-Ionizing Radiation Protection (ICNIRP) on the limitation of exposure of the general public to electromagnetic fields by way of health protection. This equipment should be installed and operated to ensure a minimum of 20 cm spacing to any person at all times.

Hereby, the manufacturer declares that the radio equipment type N650 is in compliance with Directive 2014/53/EU.

The full text of the EU declaration of conformity is available at the website: [www.mio.com](http://www.mio.com)

## **Waste Electrical and Electronic Equipment (WEEE)**



This symbol means that according to local laws and regulations your product and/or its battery shall be disposed of separately from household waste. When this product reaches its end of life, take it to a collection point designated by local authorities. Proper recycling of your product will protect human health and the environment.