
Ruby 10

(RT101)

10" Rugged Android™ Tablet Device

User's Manual

Version 1.0



2025.07



Revision History

Version	Release Time	Description
1.0	2025.08	Initial release

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About This Manual

This user manual provides operational guidelines, regulatory compliance notices, safety information, and technical specifications for the Ruby10 10.1" rugged Android tablet. It is intended for system integrators, technical personnel, and end users with a basic understanding of embedded or mobile computing systems.

Please retain this manual for future reference. For further assistance, contact your AMobile representative or visit our official website.

Website: <https://www.amobile-solutions.com/>

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Declaration of Conformity

This product complies with the essential requirements and relevant provisions of the following EU directives:

- **EMC Directive** 2014/30/EU
- **Low Voltage Directive** 2014/35/EU
- **Radio Equipment Directive (RED)** 2014/53/EU
- **RoHS Directive** 2011/65/EU, including amendment 2015/863/EU

In addition, this device is designed to meet the hardware certification requirements for **Google Mobile Services (GMS)** under Android 14 platform.

A formal Declaration of Conformity and Certificate of Compliance can be provided upon request from our Technical Support Team. To ensure continued CE compliance, please use only shielded cables for all external interface connections.

GMS Compatibility Statement

The Ruby10 is designed and manufactured to meet **Google Mobile Services (GMS)** certification requirements. Its compatibility with Android 14 is validated through:

- Successful completion of **CTS (Compatibility Test Suite)**, **GTS (Google Test Suite)**, and **VTS (Vendor Test Suite)**.
- Verified support for the Google Play Store and core Google applications.
- Implementation of **Factory Reset Protection (FRP)** and secure **device encryption**.
- Delivery of regular **Android security patches**, aligned with AOSP releases
- Full support for **certified over-the-air (OTA)** firmware updates through Amobile's update infrastructure.

FCC Compliance and SAR Information

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
2. This device must accept any interference received, including interference that may cause undesired operation.

FCC ID: [2AQ5W-RT101]

Important Notice: Unauthorized modifications to this equipment may void the user's authority to operate the device under FCC regulations.

Radio Frequency (RF) Exposure – Specific Absorption Rate (SAR) Compliance:

This product has been evaluated and found to comply with FCC limits for RF exposure in an uncontrolled environment.

Maximum SAR values:

- Body-worn: 1.14 W/kg

This device was tested with a separation distance of 0mm from the body. To maintain compliance with RD exposure requirements:

- Use only accessories that maintain a minimum distance of 5mm from the body.
- Do not use carrying case with metallic components.
- Avoid operating the device other active radio antennas or transmitters (co-location is not recommended).

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.

RoHS / REACH / SVHC Compliance

This product complies fully with the following environmental regulations:

- RoHS Directive 2011/65/EU, including Amendment 2015/863/EU, which restricts the use of hazardous substances such as Lead (Pb), Cadmium (Cd), Hexavalent Chromium (Cr⁶⁺), PBB, PBDE, and four phthalates (DEHP, BBP, DBP, DIBP)
- REACH Regulation (EC) No. 1907/2006, including compliance with Substances of Very High Concern (SVHC) reporting requirements.
- All components used in this device have been verified to contain no restricted substances in concentrations exceeding 0.1% weight by weight (w/w), as defined by the above regulations.
- In addition, the product is manufactured using lead-free soldering technology, with a solder alloy composition of 96–96.5% Tin (Sn), 3.0–3.5% Silver (Ag), and 0.5% Copper (Cu)..

Safety Symbols

The following symbols are used throughout this manual to indicate safety-related information:



CAUTION

Indicates a potentially hazardous condition that could result in minor personal injury or product damage if not observed.



Electrical Warning

Warns of potential electric shock. Do not attempt to disassemble the device or touch exposed electronic components.

Important Safety Instructions

To ensure safe operation and avoid damage to the equipment, please adhere to the following precautions:

1. Operate the device only within specified temperature and humidity limits.
2. Use only the power adapter and accessories provided by Amobile.
3. Keep the device away from water, high heat, and direct sunlight.
4. Always disconnect the power supply before cleaning or performing maintenance.
5. Do not place heavy objects on the display panel or interface connectors.
6. Avoid dropping, crushing, or applying excessive mechanical force to the unit.
7. If the device becomes damaged or malfunctions, consult authorized service personnel.
8. Never incinerate, puncture, or short-circuit the battery under any circumstances.

**Power Supply Warning**

Use only the power adapter and charging accessories supplied with this product. The use of non-approved or incompatible adapters may result in device malfunction, overheating, or pose a fire hazard.

**Hearing Safety Notice**

To reduce the risk of permanent hearing damage, do not listen at high volume levels for prolonged periods. Always adjust the volume to a safe and comfortable level, especially when using headphones or earbuds.

Laser Safety Notice

The integrated barcode scanner in this device is classified as a **Class 2 laser** product in accordance with **IEC 60825-1:2014**. Do not stare direct into the laser beam, as prolonged exposure may result in visual discomfort or potential injury. When operated as instructed, the laser poses no hazard to users or bystanders.



Rechargeable Battery Pack Safety

To ensure optimal battery performance and safe usage, observe the following guidelines. Always operate the device within the recommended temperature range (refer to section 1.5 Specifications). Do not leave the device in high-temperature environments, such as inside a parked vehicle.

This product contained two battery units:

- **Main battery:** removable lithium-ion battery, 3.85V, 6,600mAh
- **Backup battery:** Internal rechargeable cell, 3.75V, 180mAh
- **Total Energy:** Approximately 26.07 Wh (25.41+0.666 Wh)

The battery system is certified to **IEC 62133** and tested in accordance with **UN38.3 transportation safety standards**.

Charging & Handling Guidelines:

- Use only the supplied USB Type-C charger (12V/1.5A, 9V/2A or 5V/3A)
- Do not charge the device below 0°C or above 40°C ambient temperature.
- Keep away from open flames, sharp objects, or potential short-circuit conditions.

Storage & Maintenance Instructions:

- Store the device in a temperatures-controlled environment between -10°C and 50°C
- If the device is not in use for extended periods, recharge it every 3 months to avoid battery degradation (deep discharge)

Service Life Expectancy:

- Under normal use condition, the battery retains up to 80% of its original capacity after 500 charge cycles.
- Only use Amobile-authorized batteries and dispose of spent batteries following local environmental regulations and recycling guidelines.

Cleaning and Maintenance Guidelines

To maintain the appearance and performance of the device, follow these cleaning instructions:

General Cleaning Instructions:

- Power off the device and disconnect it from any power source before cleaning
- Use a soft, lint-free cloth dampened with isopropyl alcohol (70–90%) for wiping surfaces.
- Avoid using paper towels, hard solvents, or any liquids cleaners near ports or circuit components.

Recommended Cleaning Tools:

- Cotton swabs or anti-static foam swabs for cleaning small or recessed areas.
- Compressed air (in short bursts) or a mini vacuum cleaner for removing dust from vents and connectors.

Cautionary Notes:

- Do not allow moisture to enter the device interior.
- Never immerse, submerge, or spray the device with liquids.

Equipment Disposal and WEEE Compliance

This product is designed in accordance with the the EU Waste Electrical and Electronic Equipment (WEEE) Directive 2012/19/EU. Electronic products and batteries must not be disposed of with general household waste.



.Electronic Waste Disposal:

- Contact certified e-waste collection centers or authorized recyclers in your local area.
- Outside the EU, follow applicable national or regional environmental regulations.

Battery Disposal:

- Dispose of used batteries through official e-waste recycling programs.
- Never incinerate, puncture, or expose batteries to fire or high heat.

Technical Support

For the latest product documentation, drivers, firmware updates, and technical resources, please visit the official AMobile support page:

<https://www.amobile-solutions.com/>

If you require additional assistance, our customer support team is available via the contact information provided on the website. We are committed to providing timely and effective support for all inquiries.

Warranty and Return Information

AMobile warrants this product to be free from defects in materials and workmanship under normal use for a period of one (1) year from the date of original retail purchase.

Batteries and accessories are covered under a separate limited warranty of six (6) months.

Warranty coverage does not apply to the following situations:

- Damage resulting from misuse, neglect, or accidents.
- Unauthorized disassembly, service, or modifications.
- Cosmetic wear from normal usage over time.
- Damage due to natural disasters, power, power surges, or other force majeure events.

Return and RMA Process:

- An official Return Merchandise Authorization (RMA) number must be obtained prior to returning any product.
- The returned product must include the RMA number and a clearly written description of the issue or fault.

For complete warranty details and return procedures, please consult the warranty section on our website or contact your designated AMobile representative.

Chapter 1

Introduction

1.1 Product Highlights

The Ruby10 is a rugged 10.1" Android™ tablet built for field mobility, industrial durability, and enterprise-grade functionality. Notable feature include:

- **High-performance SoC:** MediaTek MT8781 with 2× Cortex-A76 2.2GHz + 6× Cortex-A55 2.0GHz.
- **Operating System:** Android™ 14, fully certified for Google Mobile Services (GMS)
- **Display:** 10.1" IPS TFT LCD, 800 × 1280 (WXGA), with capacitive multi-touch panel.
- **Ruggedness:** IP65 resistance; drop-tested to 1.2m (4ft) onto steel surface
- **Imaging:** Integrated 1D/2D barcode scanner, 8MP front, and 13MP rear camera with LED flash.
- **Wireless Connectivity:** Wi-Fi 6E, Bluetooth 5.4, LTE with global band support
- 1.2m (4ft.) drop resistance
- **Battery:** Hot-swappable 6600mAh lithium-ion battery enabling continuous 24/7 operation
- **NFC Support:** EMVCo Reduce Range 1 compliant, NFC pay on screen

1.2 Package Contents

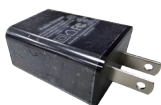
Upon opening the package, carefully inspect the contents. If any of the items is missing or appears damaged, contact your local dealer or distributor. The package should contain the following items:



1 x Ruby10 Rugged Tablet



1 × USB Type-C cable (1 meter length)



1 x Charger
(5V/3A or 9V/2A or 12V/1.5A)



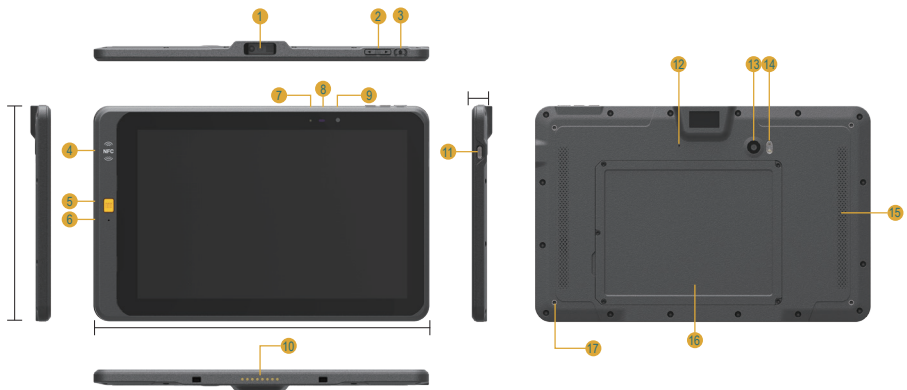
1 x Quick Start Guide

1.3 Optional Accessories

To extend the functionality and versatility of the Ruby10 tablet, the following optional accessories are available. For availability, pricing, and technical compatibility, please consult your AMobile representative.

Accessory	Description
Charging Cradle	1 × USB Type-C charging port (5V/3A input)
I/O Cradle A	2 × USB Type-A 1 × RJ45 (10/100 Mbps) 1 × USB Type-C (5V/3A input)
I/O Cradle B	4 × USB Type-A 1 × RJ11 (cash drawer port, support 12V/24V) 1 × RJ45 (10/100 Mbps) 1 × DC Jack (12V/3A input)
VESA Mount	With DC Jack (5V/3A input) and mounting screws
Hand Strap	Nylon hand strap (220 × 123 mm) with mounting screws

1.4 Parts of the Device



1	Barcode Scanner	10	POGO Pins
2	Volume Keys	11	Type C
3	Power Key	12	Mic
4	NFC	13	Main Camera
5	Trigger Key	14	Flash Light
6	Mic	15	Speaker
7	LED	16	Battery Cover
8	P/L Sensor	17	Nuts for Handstrap
9	Front Camera		

1.5 Specifications

System	
Processor	MediaTek MT8781, octa-core (2× Cortex-A76 @ 2.2GHz + 6× Cortex-A55 @ 2.0GHz)
Operating System	Android™ 14 with full Google Mobile Service (GMS) certification
Memory	4GB/8GB LPDDR4X
Storage	64GB/128GB UFS2.2
Display	10.1 IPS TFT LCD, 800 × 1280 (WXGA), Capacitive multi-touch
Peripherals and Devices	
Camera	Front Camera: 8M Rear Camera: 13M with LED flash
Sensor	G-sensor (Accelerometer) Digital Compass Gyroscope Ambient Light Sensor
Navigation	AGPS/GPS/Glonass/Beidou/Galileo
Barcode Scanner	Zebra SE4710 1D/2D
Audio & Vibrator	2 x built-in microphone 1 x built-in speaker (2W) 1 x vibrator
OTG	Support
Wireless	
WLAN	WiFi 6E
Bluetooth	BT 5.4
WWAN	2G: 850/900/1800/1900 MHz 3G: Bands 1/2/5/8, HSDPA/HSUPA/HSPA+ 4G: Bands 1/2/3/4/5/7/8/9/12/17/20/26/28/34/38/39/41
NFC	Support (ISO/IEC14443A/B; ISO/IEC15693; Tags T2/3/4/5; etc.)
I/O Interface	
SD Slot	1 x microSD card slot (max 512GB)

SIM Socket Configuration	Mode 1: Dual Nano SIM Mode 2: Nano SIM + microSD
USB Port	1 x USB Type-C (USB 2.0 OTG)
Qualification	
Certification	CE, FCC, NCC, UKCA
Durability Features	IP65 certified 1.2m (4ft.) drop-resistance
Power Supply	
Charging Interface	USB Type-C or pogo pin
Power input	12/1.5A, 9V/2A, 5V/3A (PE2.0 supported)
Battery capacity	Removable: 3.85V 6,600mAh; Backup: 3.75V, 180mAh; Total energy: ~26.07 Wh
Key	
Physical Buttons	Power key, volume key, customizable trigger key
Key	
Physical Buttons	Power key, volume key, customizable trigger key
IMechanical & Environmental	
Operating Temp.	Battery mode: -10°C ~ 50°C (14°F ~ 122°F) Adapter mode: -10°C ~ 40°C (14°F ~ 104°F)
Storage Temp.	-30°C ~ 70°C (-22°F to 158°F)
ESD Protection	±15kV (air) ±8kV (contact)
Humidity	10% ~ 90%RH
Dimensions	W: 268.2*H: 171.9*D:12.3mm
Weight	680g (1.49lb)

Chapter 2

Getting Started

2.1 Installing SIM and microSD Card

Following the steps below to install the SIM and microSD card properly.

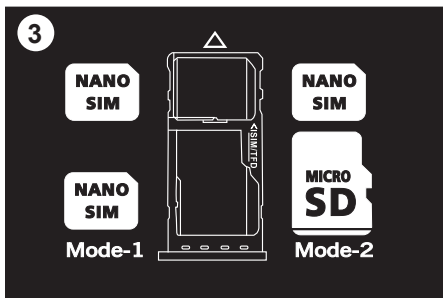
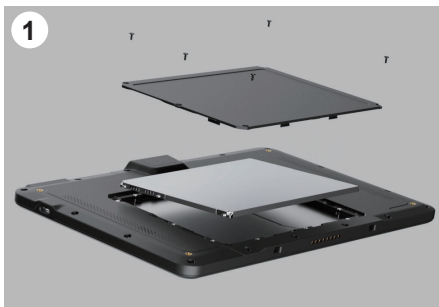
- 1.Power off the device completely.
- 2.Remove the rear battery cover by loosening the screws.
- 3.Remove the main battery.
- 4.Insert the Nano SIM and microSD card into the labeled slot according to one of the two supported configurations.

Mode 1: Dual Nano SIM cards (SIM1 + SIM2)

Mode 2: One Nano SIM card + one microSD card.

Note: SIM2 and the microSD card share a hybrid slot; only one of them can be used at a time

- 5.Reinsert the battery, ensuring proper terminal alignment.
- 6.Secure the battery cover before powering on the device.



2.2 Charging the Device

To ensure optimal battery performance and extended lifespan, it is strongly recommended to fully charge the device prior to first use.

The Ruby10 is equipped with a high-capacity lithium-ion battery that can be charged via the supplied USB Type-C power adapter. A complete charge cycle takes approximately 3 hours under standard conditions.

Important: Always use Amobile-approved charging accessories. The use of unauthorized adapters may result in reduced performance, overheating, or damage to the device.

2.2.1 Charging the Battery

The Ruby10 can be charged via a wall outlet or a computer using a USB Type-C to USB Type-A cable (included). Follow the instructions below to ensure safe and efficient charging.

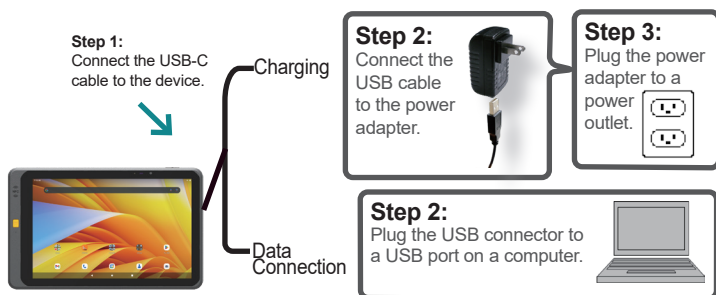
A. Charging via Electrical Outlet

1. Connect the USB Type-C end of the charging cable to the Ruby10's port.
2. Plug the USB Type-A end into the provided power adapter.
3. Insert the adapter into a standard AC wall outlet.
4. A complete charge cycle from 0% to 100% takes approximately 3 hours.
5. While charging:
 - The battery icon in the status bar will display a lightning bolt symbol.
 - The front LED indicator will illuminate red, showing that the device is charging even when the screen is off.
 - When charging is complete, the LED indicator will turn green.

Battery Charging Tips:

- Always charge within the ambient temperature range of 0° to 40°.
- Avoid charging in environments with direct sunlight, enclosed vehicles, or near heat sources.
- To maximize battery lifespan, maintain battery level between 20% to 80% during regular use.
- Avoid deep discharges (to 0%) and overcharging the battery for extended periods.

Important: Use only Amobile-certified power adapters and cables to maintain safety and warranty coverage.



2.2.2 Checking the Battery Level

You can check the current battery level and charging status by viewing the **battery icon** in the system status bar.

- Tapping the icon will show the exact battery percentage.
- If the percentage is not visible by default, go to:
- **Settings**→**Battery**→**Show battery percentage** to enable it.

Tip: Keeping the battery percentage visible is recommended for field users who need constant awareness of power status.

2.3 Installing/Replacing the Battery

The Ruby10 is equipped with a removable main battery, designed for quick replacement in the field environment.

To ensure safe operation and battery integrity, follow the procedures in the following sections for accessing and installing the battery.

Note: Use only Amobile-certified batteries. The use of third-party or damaged batteries may result in malfunction, overheating, or voiding of the warranty.

2.3.1 Accessing Battery Chamber

Follow the steps below to safely open the battery compartment:

1. **Power off** the device completely before proceeding.
2. Use a Philips screwdriver to loosen and remove the eight (8) screws securing the rear battery cover.
3. Carefully lift and remove the cover to expose the battery compartment and SIM/microSD slot area.

Caution: Do not apply excessive force or pry open the cover with sharp tools. Doing so may damage the device enclosure or compromise its IP65 protection rating.

Tip: Keep the removed screws in a secure location and reinstall them using even pressure to ensure water/dust resistance.

2.3.2 Installing or Replacing the Battery

Follow these steps to install or replace the main battery.

1. Align the **battery terminals** with the gold-plated contacts inside the battery compartment. Ensure proper orientation.
2. Gently insert the battery into the compartment until it fits flush.
3. Reposition the rear battery cover and secure it with **eight (8)** screws removed earlier.
4. Use even pressure when tightening screws to preserve the device's **IP65-rated sealing**.

Caution: Do not use force to insert the battery. Misalignment may cause contact failure or damage internal connectors.

Tip: If the device does not power on, verify battery polarity, contact cleanliness, and that all screws are properly secured.

Chapter 3

Using the Rugged Handheld Device

3.1 Using Touch Screen

The Ruby10 is equipped with 10.1-inch capacitive multi-touch panel, allowing intuitive interaction using your fingertips.

3.1.1 Basic Operations

The following table summarizes the most common touch screen gestures supported by the Ruby10:

Operation	Description
Tap	Select an item, launch an app, or confirm an option
Double Tap	Zoom in (e.g., in browser or photo viewer)
Long Press	Move your finger horizontally or vertically across the screen to scroll through the screen, App menu, pages, lists and so on.
Swipe	Scroll through content, dismiss notifications, or switch between screens.
Drag	Move items across the screen (e.g., rearrange app icons)
Pinch/Spread	Zoom in or out on images, maps, or web content

Tip: The touchscreen may not respond accurately if used with gloves, unless they are capacitive touchscre-compatible.

3.1.2 Text Input

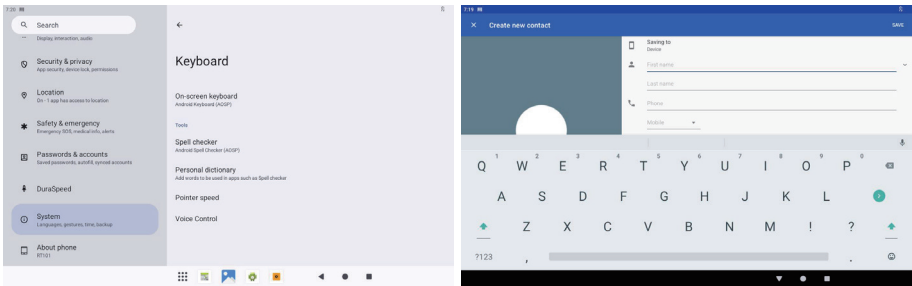
The Ruby10 uses an on-screen virtual keyboard for text entry. It will automatically appear when you tap on a text field in any app.

The layout and input method may vary depending on your selected language, keyboard app, or IME (Input Method Editor).

To switch languages or input modes:

- Tap the globe icon (if available) on the keyboard.
- Or go to Settings→System→Keyboard→On-screen keyboard.

Tip: You can also install third-party keyboards from Google Play (if GMS is enabled) to support handwriting, voice input, or additional languages.



3.1.3 Sleep Mode

Ruby10 automatically enters sleep mode after a preset period of inactivity in order to conserve battery.

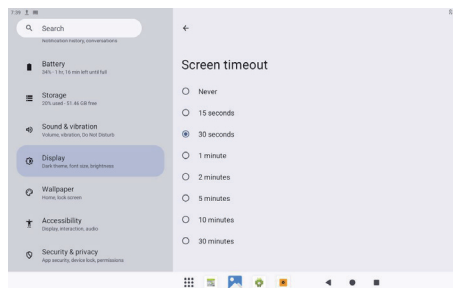
Manual sleep and wake operations:

- **To enter sleep mode:** Press the **Power button** briefly.
- **To wake the device:** Press the **Power button** again.

You can adjust the screen timeout duration via:

Settings→Display→Screen timeout

Note: The device continues running in the background while in sleep mode. Wireless connections and background apps remain active unless disabled separately.

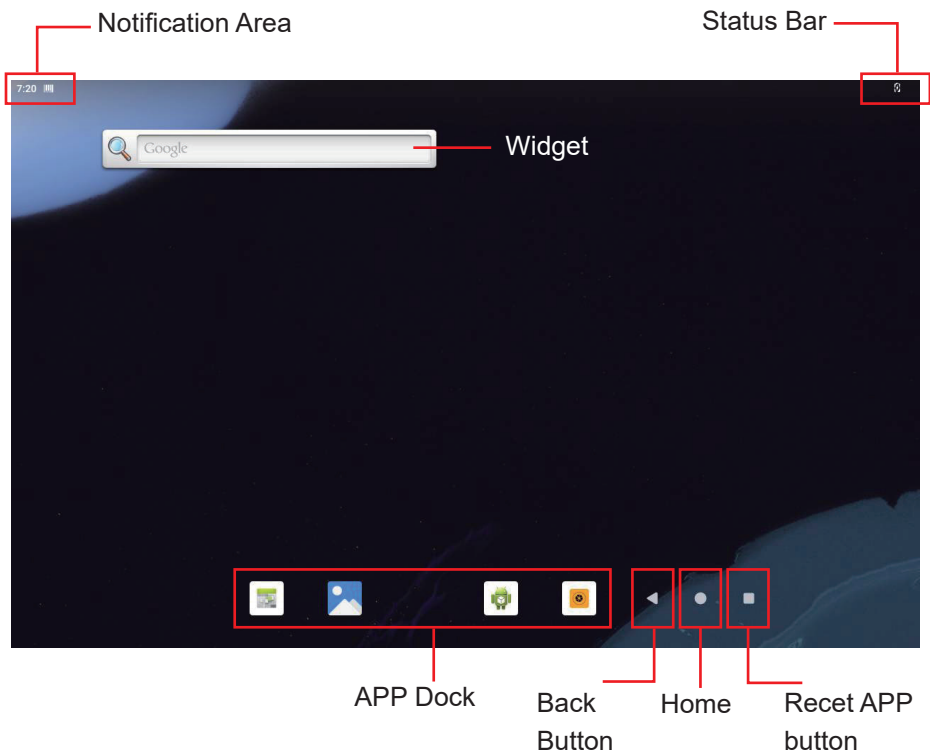


3.2 Home Screen

The Home Screen is the primary user interface displayed after the device powers on or wakes from sleep. It provides access to frequently used apps, notifications, and system navigation.

provides you with an instant access to device status, notifications, application shortcuts, folders and widgets. Simply tap an item and you can launch the associated application. You can also add desired items to the **Home** screen, extend the **Home** screen or personalize the wallpaper to tailor it to your personal needs.

When you power on the device for the first time, a typical **Home** screen looks like the example below.



The following elements are part of the Ruby10's Android Home interact:

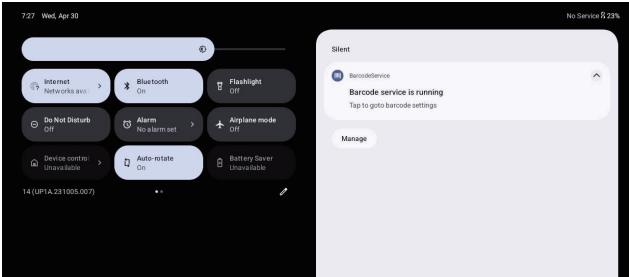
On-Screen Interface Components

Element	Descriptions
Status Bar	Display battery level, time, signal strength, and system indicators.
Notification Area	Swipe down to view messages, alerts, or system notifications
Widget	Interactive items such as weather, clock, or calendar widgets.
App Icons / Launcher	Tap to open app; arranged on home screen or within app drawer.
App Drawer	Access all installed apps by swiping up from the bottom.
App Dock	Persistent shortcut bar at the bottom of the screen.
Navigation Bar	Includes Back, Home, and Recent Apps buttons (on screen soft keys)

Physical Buttons and Controls

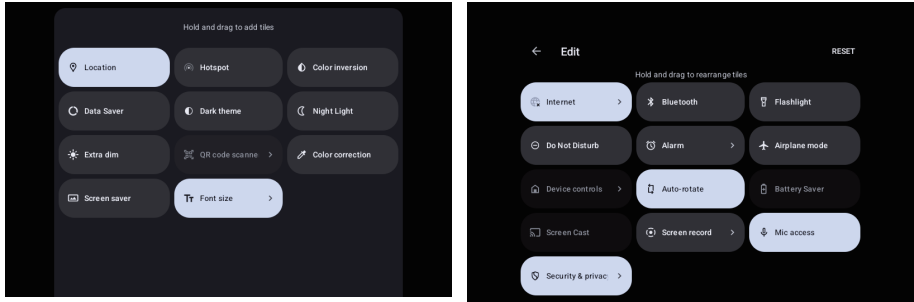
Element	Descriptions
Power button	Turns the screen on/off or powers the device up/down.
Volume Up / Down	Adjust media and system sound levels.
Scanner Trigger Key	Initiates barcode scanning. Configuration is accessed via the BarcodeService menu in the Quick Settings Panel.

Note: The BarcodeService function is accessed by swiping down from the top of the screen.



3.2.1 Using the Quick Settings Panel

The **Quick Settings** panel provides fast access to frequently used system functions. It allows users to view status and toggle features such as below.



How to access:

- Swipe down once from the top of the screen to open the compact Quick Settings.
- Swipe down again to expand the full panel and view additional tiles.

How to interact:

- Tap an icon to enable/disable the feature.
- Long-press an icon to open its full settings page.
- Tap the pencil icon to customize which tiles appear.

Note: The available shortcuts may vary depending on your system version, GMS certification status, or device configuration.

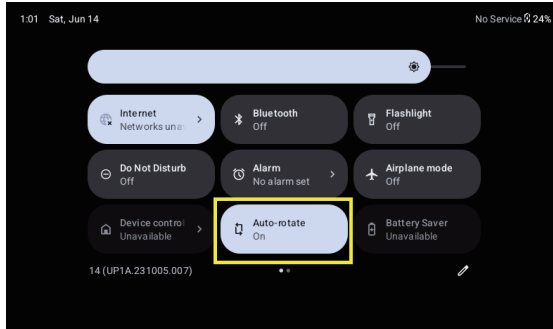
3.2.2 Enabling/Disabling Screen Rotation

The Ruby10 supports automatic screen rotation, allowing the display to switch between portrait and landscape modes based on the device's orientation.

Two ways to toggle screen rotation:

1.Quick Settings Panel

- Swipe down from the top of the screen.
- Tap the **Auto-Rotate** icon to enable or disable screen rotation
- When disabled, the screen will remain in its current orientation



2. System Settings Menu

- Go to Settings→Display→Auto-rotate screen
- Toggle the switch to turn the feature on or off.

Tip: When Auto-Rotate is disabled, some apps (e.g., camera, video playback) may still force landscape mode depending on their design.

3.3 Configurations

The Ruby10 provides centralized access to various device features through the **Settings** menu.

To access Settings:

- Tap the Settings icon from the **Home Screen** or **App Drawer**

Within the Settings interface, you can manage:

- **Wi-Fi** and **Mobile network** connectivity.
- **Bluetooth** pairing and configuration.
- **Sound**, **Display**, and **Notification** preferences.
- **Security**, **Accounts**, and **System updates**

Tip: Some configuration options may vary depending on the Android version, Google Mobile Service (GMS) certification status, or system customization by the manufacturer.

3.3.1 Configuring Your SIM Card

The Ruby10 supports dual Nano SIM cards and can automatically detect the mobile network once the SIM is inserted.

These settings can be found at:

Settings→Network & internet→SIMs

- Default SIM for voice calls, SMS, and mobile data.
- Enable/disable individual SIM slots.
- Configure APN, data usage, or roaming references.

When both SIMs are active, two signal indicators will appear in the status bar.

Icon	Descriptions
	No signal or no SIM card inserted.
	Connected to a cellular network. (The more bars are lit, the stronger the wireless signal is)

Tip: When a SIM is not present, the device can still connect via Wi-Fi for most function, See Section 3.4 for details

3.3.2 Making/Receiving Calls

After the SIM card(s) are successfully activated, the Ruby10 will automatically register with your mobile network at startup.

Voice calls can be made or received using:

- A **Bluetooth headset** or hands-free car ket.
- A **USB-C audio headset** (via digital audio adapter or compatible USB-C earphones).

The default **Phone app** allows you to:

- Manually dial numbers or select contacts.
- Answer, end, or reject incoming calls.
- View recent call history and missed calls.

Dual SIM Calling Behavior

Ruby10 supports **dual standby SIM** cards with dynamic or set preferences.

You can configure SIM behavior via:

Settings→**Network & Internet**→**SIMs**, where you can set preferences for:

- **Mobile Data** – Choose which SIM provides data access.
- **Allow Calls** – Choose which SIM to use for voice calls.
- **SMS Messages** – Choose which SIM sends/receives text messages.

For voice calls, the system supports:

- **Auto prompt:** After dialing number, a pop-up lets you choose between SIM1 and SIM2.
- **Fixed preference:** Always use the SIM specified under “Allow Calls”

3.3.3 Data Connection

The Ruby10 supports mobile data access through 4G/3G/2G networks when a valid SIM card is inserted. Based on network availability and carrier configuration, the system automatically connects to the fastest supported technology.

You can manually toggle mobile data and assign a preferred SIM for data usage.
Managing Mobile Data

To enable, disable, or switch mobile data:

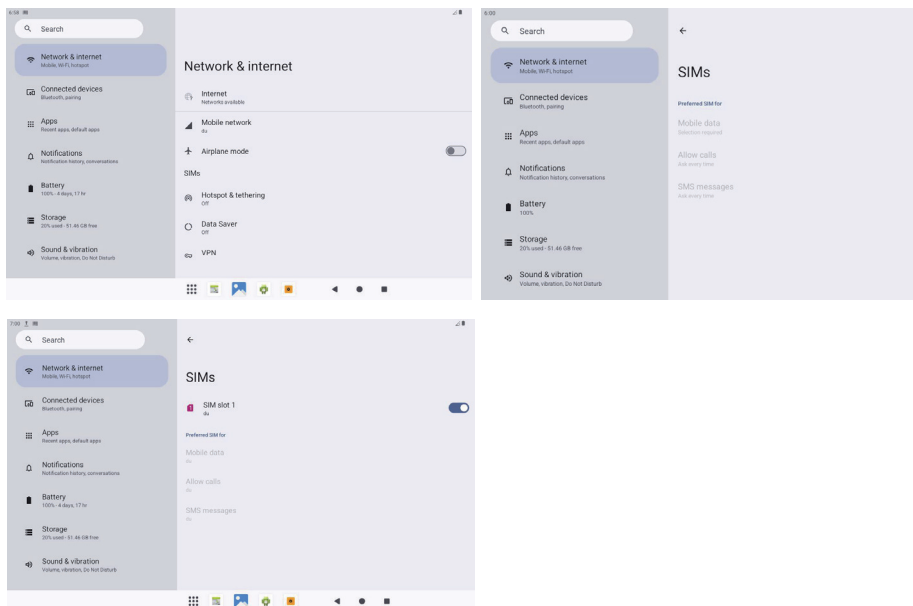
1. Go to **Settings**→**Network & Internet**→**SIMs**
2. Choose the SIM card you want to configure
3. Tap Mobile Data, and select SIM1 or SIM2 to enable data on that SIM

You can also set the preferred mobile network type via:

Settings→**Network & Internet**→**Mobile Network**→**Preferred networks**

Note: If both 4G Calling and Allow 2G are disabled for a SIM, it will not support voice or data services.

Note: Using Wi-Fi for data connection is faster and less expensive than using a cellular network and you may want to disable data connection of your SIM card when Wi-Fi is available. On the other hand, you may want to enable cellular data connection when Wi-Fi is not available.



3.4 Using the Wi-Fi Feature

Ruby10 is equipped with **Wi-Fi 6E (802.11 ax)** wireless technology via the **MediaTek MT7902** chipset, supporting tri-band operation across 2.4GHz, 5GHz, and **6GHz** frequency bands.

Wi-Fi 6E delivers:

- High data throughput
- Lower latency for real-time applications
- Less interference due to wider 6GHz channels.

Note: Availability for the 6GHz band may vary depending on regional regulatory approvals. In restricted regions, the device will automatically fall back to 2.4GHz or 5GHz operation.

Note: Turn off Wi-Fi when it isn't used to extend battery life.

The Status Bar displays the following icons that shows Wi-Fi status.

Icon	Descriptions
	Notifies that an open Wi-Fi network is in range.
	Notifies that a Wi-Fi network is connected. Waves indicate signal strength.

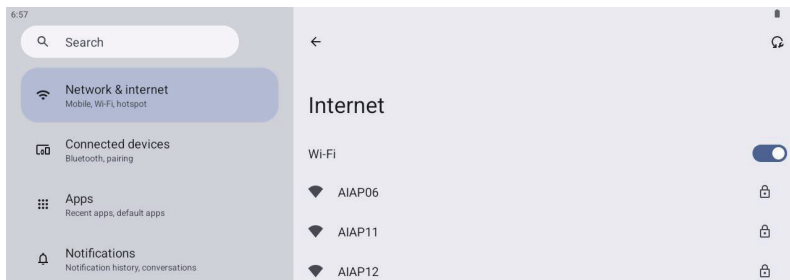
Operation of transmitters in the 5.925-7.125 GHz band is prohibited for control of or communications with unmanned aircraft systems

3.4.1 Enabling Wi-Fi and Connecting to a WLAN

To enable Wi-Fi and connect to a network:

1. Go to **Settings**→**Network & Internet**→**Internet**
2. Tap the **Wi-Fi Toggle** to enable the wireless connectivity
3. Select a network from the list
4. Enter the password (if required), then tap Connect.

Once connected, the Wi-Fi icon will appear in the status bar.



3.4.2 Adding a Wi-Fi Network

If the SSID (network name) is hidden or does not appear:

1. Go to **Settings**→**Network & Internet**→**Internet**
2. Tap the **Wi-Fi Toggle** to enable the wireless connectivity
3. Tap **Add network**
4. Enter
 - **Network name (SSID)**
 - **Security type**
 - **Password** (if required)
5. Tap **Save**

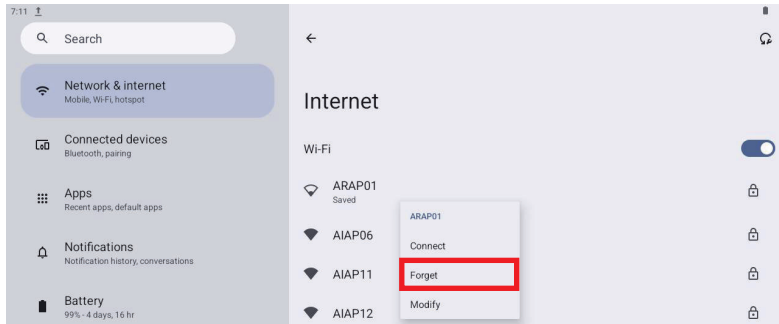
3.4.3 Forgetting/Modifying a Wi-Fi Network

To disconnect and remove a save network:

1. Go to **Settings**→**Network & Internet**→**Internet**
2. Tap the saved network
3. Select **Forget**

To changes stored credentials (e.g., Wi-Fi password)

- Repeat the above steps and choose **Modify** instead.



3.4.4 Making Your Device a Wi-Fi Hotspot

Ruby10 can share its mobile data connection via Wi-Fi hotspot:

1. Go to **Settings**→**Network & Internet**→**Hotspot & tethering**
2. Tap the toggle to enable the hotspot
3. Tap Hotspot name, Security, or Hotspot password to customize.
4. Nearby devices can connect using the shown SSID and password.

Tip: For security, always use WPA2 or WPA2 encryption with a strong password.

3.5 Bluetooth Settings and Configuration

Ruby10 is equipped with the MediaTek MT7902 wireless chipset, supporting Bluetooth 5.4, and operating in the 2.402 GHz – 2.480 GHz ISM band. It provides dual-mode support to both Classic Bluetooth (BDR/EDR) and Bluetooth Low Energy (BLE) communication.

Supported Bluetooth profiles include:

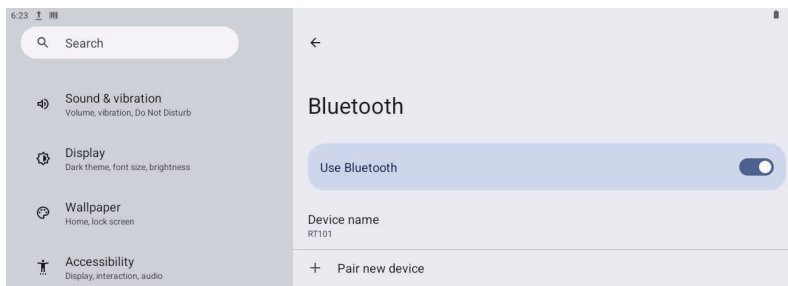
- A2DP – Advanced Audio Distribution Profile for high-quality stereo audio.
- HFP/HSP – Hands-Free and Headset Profiles for voice calling.
- HID – Human Interface Device Profile for keyboards, barcode scanners, etc.
- OPP/FTP – Object Push and File Transfer for sending/receiving files.
- SPP – Series Port Profile for legacy or industrial data connections.
- GATT – Generic Attribute Profile for BLE-based device communication.

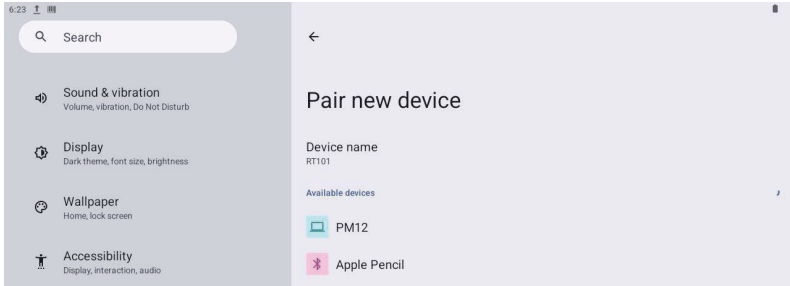
3.5.1 Managing Paired Devices and Profiles Turning On Bluetooth

To enable Bluetooth:

1. Go to Settings→Connected devices
2. Tap Connection preferences →Bluetooth
3. Toggle the Bluetooth switch to turn it on.
4. the toggle to enable the hotspot

Alternatively, swipe down from the top of the screen and tap on Bluetooth icon in the Quick Settings panel.





Pairing with a Bluetooth Device

1. Ensure the external device is in pairing mode.
2. On the Ruby10, go to Settings→Connected devices→Pair new device
3. Select the device from the list
4. Confirm the pairing code if prompted, then tap Pair.

Tip: Certain enterprise-grade accessories may require custom pairing workflow or PIN entry. Refer to the accessory's manual for pairing instructions.

5. Under Saved devices, tap the gear icon next to the target device.
6. Available feature toggles may include:
 - HD audio: ACC – For enhanced A2DP audio.
 - Phone calls – Enable/disable hands-free voice.
 - Media audio – General A2DP audio stream.

Note: Additional profiles such as HID, OPP, or SPP are automatically activated when compatible apps or devices request access.

3.5.2 Disconnect from a Bluetooth Device

1. To disconnect: Tap the device's gear icon, then tap Disconnect.
2. To unpair: Tap Forget to remove it from the paired list.

3.5.3 Additional Bluetooth Settings

- To rename a paired device: Tap the pencil icon on the top of the device settings screen, then enter a custom name.
- Rename this device : Tap Connect device → Connection preferences → Bluetooth → Device name

3.6 Using the Location Feature

Ruby10 integrates global navigation and location-based services to support applications such as field asset tracking navigation, proximity marketing, and secure authentication.

Supported technologies include:

- GNSS: GPS, GLONASS, Galileo, BeiDou.
- A-GPS: Assisted GPS using Wi-Fi and cellular networks.

Android apps can access the location service when permissions are granted and the location function is enabled.

3.6.1 Enabling/Disabling Location Service

Option 1: From Quick Settings

1. Swipe down from the top of the screen to open the Quick Settings panel.
2. Tap the Location tile to toggle the service on or off.

Option 2: From System Settings

1. Go to Settings→Location
2. Use the main toggle to enable/disable location globally
3. You may see a usage summary or battery impact notification below

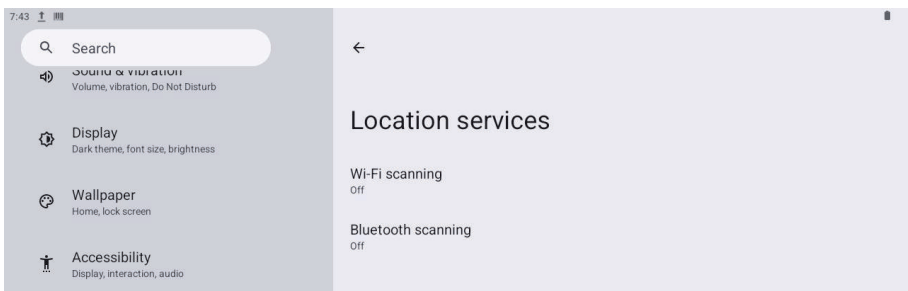
3.6.2 Enabling/Disabling Location Service

Ruby10 allows you to improve location accuracy by enabling Wi-Fi and Bluetooth scanning, which helps Android determine your position even when GPS signals are weak or unavailable(e.g., indoors)

To enable scanning:

1. For to Settings→Location→Location services
2. Tap Wi-Fi scanning and enable it
3. Tap Bluetooth scanning and enable it

These services allow location-aware apps to use nearby Wi-Fi networks or Bluetooth beacons to improve accuracy.



Note: These settings do not control general Bluetooth or Wi-Fi connectivity. They are only used passively to improve positioning, even when those radios are turned off.

3.7 Using Camera

Ruby10 is equipped with two integrated cameras:

- Front Camera: 8 MP (ideal for video conferencing or facial recognition)
- Rear Camera: 13 MP with autofocus and LED flash (suitable for documentation, scanning, or general photography)

The native Android Camera app provides all essential photo and video functions, including switching lenses, HDR, zoom, and video recording.

Accessing the Camera

To launch the camera application:

- Tap the Camera icon from the Home screen or App drawer
- The camera opens in rear-facing by default



Photo Mode Instructions

1. Frame your subject on screen
2. Use pinch gestures to zoom in/out
3. Tap on the desired area to manually adjust focus
4. Press the Shutter icon to take the photo

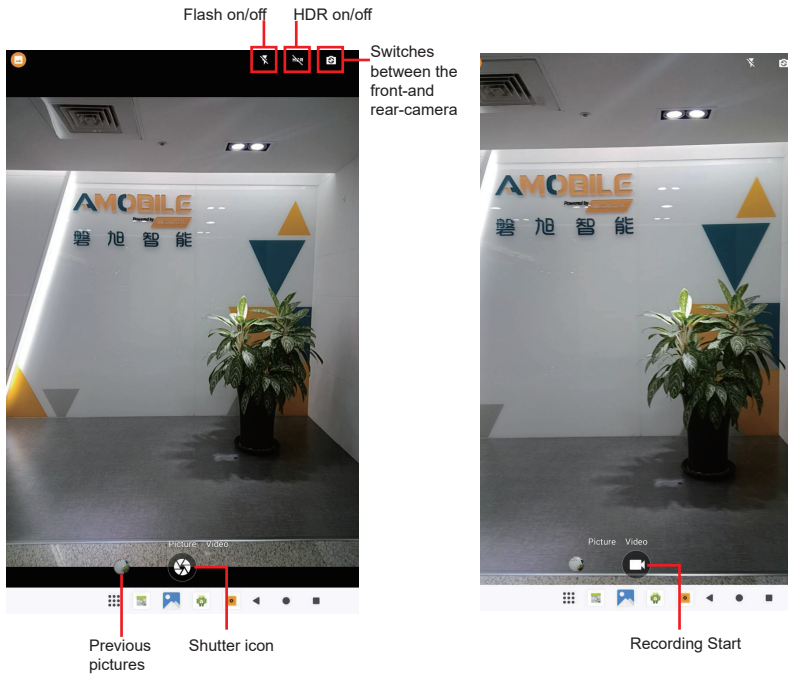
The camera uses center-weighted auto-focus by default.

Video Recording Instructions

1. Tap the Video Camera icon

2. Tap the Record icon to begin recording (timer will display)

Captured videos will be stored in the internal gallery unless redirected to a microSD card.



Regulatory & Technical Notes

- The rear camera module includes an autofocus lens and LED flash.
- Ruby10 supports the Camera HAL3 interface, and is fully compliant with Android 14 CTS/GTS requirements.
- The device does not use a mechanical shutter, and therefore meets silent operation regulations in most public or regulated environments.

-
- Camera shutter sounds follow system settings. To mute the shutter sound, users must switch the device to Silent or Vibrate mode using the volume key or system settings.
 - No image is captured or transmitted without explicit user interaction. All image data remains stored locally unless intentionally shared.

3.8 Using the NFC Feature

Ruby10 is equipped with Near Field Communication (NFC) capability, enabling Short-range contactless data exchange for identification, access control, tag reading, and mobile transactions.

Ruby10 features an under-LCD NFC antenna, which allows for screen-based contactless transactions (on-screen NFC). This design is compliant with EMVCo Reduce Range 1 (RR1), optimizing interaction with payment terminals and certified readers.

NFC Antenna Placement

The NFC antenna is integrated behind the upper-left corner LCD panel, allowing interaction through the front surface of screen.

To ensure successful detection:

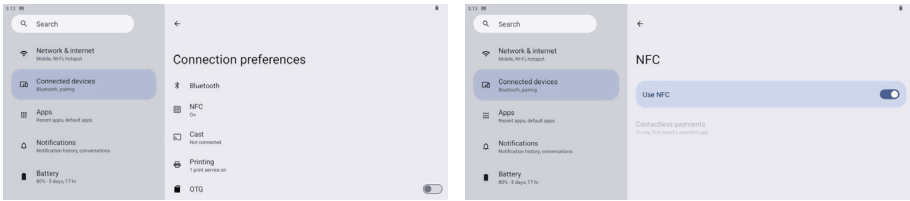
- Place the NFC card or device directly against the top-left portion of the screen
- Maintain a distance within 2 cm
- Align the antenna region of the card with the screen's upper-left area.

This screen-side antenna design supports screen-based NFC workflows and complies with EMVCo Reduce Range (RR1) specifications.

Enabling or Disabling NFC

To activate or deactivate the NFC feature:

1. Go to Settings→Connected devices→Connection preferences→NFC
2. Toggle the NFC switch ON or OFF



3.8.1 Enabling/Disabling NFC

To enable or disable the NFC function.

1. Swipe down the Status bar and tap Settings | Connection preferences | NFC |.
2. Tap the NFC slider position to turn it on or off.

3.9 Using the Barcode Scanner

Ruby10 is equipped with the Zebra SE4710 1D/2D barcode scanner module. It supports high-speed, high-accuracy decoding of standard linear (1D) and matrix (2D) barcodes.

Designed for enterprise and industrial work flows, it is ideal for inventory, logistics, retail POS, and field asset tracking.

3.9.1 Triggering the Scanner

Ruby10 is equipped with a dedicated physical scan button located on the front bezel of the device, near the top-left edge in landscape orientation.

To perform a barcode scan:

1. Hold the device in landscape mode (default for scanner use).
2. Aim the top scanner window toward the barcode.
3. Press and hold the Scan Button (located on the front-left bezel).
4. Release the button after the scanner reads the code and emits a beep or visual confirmation.

Caution: The scanner uses a Class 2 laser aimer. Do not stare directly into the beam.

3.9.2 Accessing Barcode Settings

Advanced configuration is available via the BarcodeService:

- Swipe down from the top of the screen
- Tap the BarcodeService tile to launch the scanner settings

Available configuration options include:

- Enable/disable symbologies
- Add prefix/suffix characters
- Adjust scanning timeout and trigger mode
- Set output formats

Appendix A – Supported Barcode Symbologies

The following table list the barcode symbologies supported by Zebra SE4710 scanner module integrated in the Ruby10 device

Note: Actual availability may vary based on firmware configuration. Optional OCR features require additional licensing.

Type	Formats
1D Linear Barcodes	• UPC-A, UPC-E, UPC-E1 • EAN-8/JAN-8, EAN-13/JAN-13 • Code 39, Code 128, Code 93, Code 11 • Code 32 (Italian Pharmacode) • Trioptic Code 39 • Interleaved 2 of 5, Discrete 2 of 5, Matrix 2 of 5 • Codabar (NW-7) • MSI • Bookland EAN, ISSN EAN • Code 39 Full ASCII
GS1 / Logistics Codes	• GS1-128 (formerly UCC/EAN-128) • ISBT-128 (blood and tissue labeling standard) • Code 128 Emulation
2D / Stacked Codes	• QR Code, Micro QR • PDF417, MicroPDF417 • Data Matrix • MaxiCode • Aztec • Han Xin
Composite Codes	• Composite CC-A • Composite CC-AB • Composite CC-C
Postal Barcodes	• US Postnet • US Planet • UK Postal Code (Royal Mail) • Japan Postal Code
Special Format	• TLC-39 (Tokenized Linear Code)

