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› [Motorola Moto G 5G \(2025\) XT2513-1 User Manual](#)

Motorola XT2513-1

Motorola Moto G 5G (2025) XT2513-1 User Manual

Model: XT2513-1 | Brand: Motorola

INTRODUCTION

This manual provides essential information for setting up, operating, and maintaining your Motorola Moto G 5G (2025) XT2513-1 smartphone. Please read thoroughly to ensure optimal performance and longevity of your device. The Motorola Moto G 5G (2025) XT2513-1 offers T-Mobile-locked functionality with 4 GB RAM (expandable via RAM Boost) and 128 GB built-in storage, alongside microSD support up to 1 TB, all running Android 14. It features a 6.7" HD+ (1604 × 720) LCD display with a 120 Hz refresh rate, Corning Gorilla Glass 3, and ~263 ppi for smooth visuals.



Figure 1: Front and rear view of the Motorola Moto G 5G (2025) XT2513-1 smartphone in Space Gray. The rear features a dual camera setup with a 50MP Quad Pixel sensor and a textured finish. The front displays the time and date on its screen.

1. SETUP

1.1 Initial Device Activation

Upon first power-on, follow the on-screen prompts to select your language, connect to a Wi-Fi network, and set up your Google account. The device runs on Android 14.

1.2 SIM Card and microSD Card Installation

Locate the SIM card tray on the side of the device. Use the provided SIM ejector tool (if included) to open the tray. Insert your T-Mobile locked Nano-SIM card and an optional microSD card (up to 1 TB) into the designated slots. Ensure the tray is fully reinserted.

1.3 Fingerprint Sensor Setup

The power button on the side of the device integrates a fingerprint sensor. During initial setup, you will be guided to register your fingerprint for secure unlocking. To register, gently touch the sensor multiple times until your fingerprint is fully recorded. This sensor provides quick and secure access to your device.

2. OPERATING YOUR DEVICE

2.1 Display and Navigation

The Moto G 5G (2025) features a 6.7-inch HD+ (1604 x 720) LCD display with a 120 Hz refresh rate, protected by Corning Gorilla Glass 3. Navigate using on-screen gestures or traditional navigation buttons, configurable in settings. The 120 Hz refresh rate ensures smooth scrolling and fluid animations.

2.2 Buttons and Ports

- **Power/Lock Button:** Located on the side, also functions as the fingerprint sensor.
- **Volume Buttons:** Located above the power button for adjusting media and call volume.
- **3.5mm Headphone Jack:** Located on the bottom edge for wired audio accessories.
- **USB-C Port:** Located on the bottom edge for charging and data transfer.
- **Microphone & Speaker:** Positioned on the bottom edge for calls and audio output. An additional microphone is located on the top edge.

2.3 Camera Usage

The device is equipped with a 50MP Quad Pixel main camera system and a 16MP front camera. The Quad Pixel technology enhances light sensitivity for brighter 12.5MP photos. Utilize various camera modes such as Photo, Video, Portrait, and Night Vision for different scenarios. The camera system is designed to capture sharp and vibrant photos in various lighting conditions.

2.4 RAM Boost Feature

The device includes 4GB of physical RAM and supports RAM Boost, allowing for up to an additional 8GB of virtual RAM (totaling 12GB). This feature optimizes memory usage for improved multitasking and overall performance. You can configure RAM Boost settings in the device's system menu.

2.5 5G Connectivity

Experience super-fast 5G performance powered by the MediaTek Dimensity 8300 processor. This enables quick streaming, downloads, and gaming. Ensure you are within a 5G coverage area for optimal speeds.

3. MAINTENANCE

3.1 Battery Life and Charging

The device is powered by a 5000 mAh Lithium Ion battery, providing over a day of heavy usage and potentially two days with lighter use. It supports 30W TurboPower charging for quick top-ups. A power adapter is included in the box. Use only compatible chargers to prevent damage.

3.2 Water Repellent Design

The Moto G 5G (2025) features a water-repellent design, offering protection against splashes and light rain. This does not mean the device is waterproof; avoid submerging it in water.

3.3 Software Updates

The device runs on Android 14 and is expected to receive two major OS upgrades (up to Android 16 and Android 17 when released) and three years of security updates. Regularly check for and install software updates to ensure optimal performance and security.

4. TROUBLESHOOTING

- **Device not powering on:** Ensure the battery is charged. Connect to the power adapter and wait a few minutes before attempting to power on again.
- **Fingerprint sensor issues:** Ensure your finger is clean and dry. Re-register your fingerprint if issues persist.
- **Slow performance:** Utilize the RAM Boost feature to optimize memory. Close unused applications.
- **Charging issues:** Ensure the USB-C cable and power adapter are securely connected and undamaged. Use only compatible charging accessories.

5. SPECIFICATIONS

Feature	Detail
Model Name	Motorola Moto G 5G
Item Model Number	XT2513-1
Brand	Motorola
Operating System	Android 14
CPU Model	Mediatek Dimensity 8300
CPU Speed	2.2 GHz
Screen Size	6.7 Inches
Resolution	1604 x 720

Feature	Detail
Refresh Rate	120 Hz
RAM Memory Installed Size	4 GB (expandable via RAM Boost)
Memory Storage Capacity	128 GB (expandable via microSD up to 1 TB)
Battery Power Rating	5000 mAh
Connectivity Technologies	5G
Color	Space Gray
Item Weight	6.4 ounces
What's in the box	Power Adapter

6. WARRANTY AND SUPPORT

This product is listed as "Renewed." For specific warranty details, please refer to the seller's terms and conditions at the point of purchase. Optional protection plans are available for purchase, including a 2-Year Protection Plan and a Complete Protect plan.

For technical support or further assistance, please contact Motorola customer service or refer to the official Motorola support website.