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### Breloom 4GB+64GB w/2D Barcode

# Breloom SM5-T Rugged Handheld Terminal User Manual

Model: 4GB+64GB w/2D Barcode

## 1. INTRODUCTION

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Thank you for choosing the Breloom SM5-T Rugged Handheld Terminal. This device is engineered for demanding industrial environments, combining robust durability with high-performance computing and advanced 2D barcode scanning capabilities. This manual provides essential information for setting up, operating, maintaining, and troubleshooting your SM5-T terminal to ensure optimal performance and longevity.



Figure 1: Breloom SM5-T Rugged Handheld Terminal, showcasing its front display and the textured, ruggedized back panel.

## 2. PRODUCT OVERVIEW

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## 2.1 Package Contents

Please verify that all items are present in your package:

- 1 x Breloom SM5-T Handheld Terminal
- 1 x Box
- 1 x Charger (5V 2A)
- 1 x Ejection Pin

## 2.2 Device Components



Figure 2: Detailed diagram illustrating the various components and ports of the SM5-T terminal, including the 2D scanner, SIM/TF card slot, customized button, SOS button, volume controls (V+/V-), power button, scan button, Type-C port, microphone, and Bottom Pogo PIN.

The SM5-T features a comprehensive layout designed for ease of use and industrial application:

- **2D Scanner:** Integrated at the top for efficient barcode reading.
- **SIM/TF Card Slot:** Located on the left side for network connectivity and expandable storage.
- **Customized Button:** A programmable button for quick access to frequently used functions.
- **SOS Button:** For emergency situations.
- **V+/V- Buttons:** Volume control.
- **Power Button:** To turn the device on/off or put it to sleep.
- **Scan Button:** Dedicated button to activate the barcode scanner.
- **Type-C Port:** For charging and data transfer.
- **Microphone:** For voice input.
- **Bottom Pogo PIN:** For docking and specialized charging solutions.

## 3. SETUP

### 3.1 Initial Charging

Before first use, fully charge the device using the provided 5V 2A charger. Connect the Type-C cable to the device and the charger to a power outlet. The charging indicator will show the charging status. A full charge typically takes less than 3 hours.



Figure 3: Visual representation of the SM5-T's 4000mAh battery, highlighting a charging time of less than 3 hours and a usage time of 12+ hours (based on 50% volume, 60% brightness playing local 1080p video).

### 3.2 SIM and TF Card Installation

To install a SIM card for cellular connectivity or a TF (microSD) card for expanded storage:

1. Locate the SIM/TF card slot on the left side of the device.
2. Use the provided ejection pin to open the tray.
3. Carefully place the SIM card(s) and/or TF card into the designated slots on the tray, ensuring correct orientation.
4. Gently push the tray back into the device until it clicks into place.

### 3.3 Powering On/Off

- **To Power On:** Press and hold the Power button on the right side of the device until the Breloom logo appears.
- **To Power Off:** Press and hold the Power button until the power options menu appears. Select "Power off" and confirm.
- **To Restart:** From the power options menu, select "Restart."
- **To Sleep/Wake:** Briefly press the Power button.

## 4. OPERATING THE DEVICE

### 4.1 Barcode Scanning

The SM5-T integrates a Newland NLS-N1 scanner for rapid and accurate decoding of 1D and 2D barcodes.



Figure 4: Illustration of the SM5-T's industrial-grade scanning performance, demonstrating its ability to decode various 1D (Code 128, MSI-Plessey, UPC-A, UPC-E) and 2D (Data Matrix, QR Code, MaxiCode, Aztec Code) barcode types.

To scan a barcode:

1. Open an application that supports barcode scanning (e.g., inventory management app).
2. Point the top of the device, where the scanner is located, towards the barcode.
3. Press the dedicated Scan button on the right side of the device.
4. Ensure the scanner's red aiming line covers the entire barcode for optimal reading. The device will typically provide an audible or haptic feedback upon successful scan.

## 4.2 Connectivity

The SM5-T offers robust global connectivity options:



Figure 5: Diagram illustrating the SM5-T's global connectivity and precision tracking features, including Wi-Fi 5, Bluetooth 5.0, 4G LTE, and tri-system GPS (BDS, GPS, GLONASS).

- **4G LTE:** Supports 28 global bands for reliable cellular data and calls.
- **Wi-Fi 802.11ac (Dual-band):** For high-speed wireless internet access.
- **Bluetooth 5.0:** For connecting to wireless peripherals like headsets or printers.
- **GPS (BDS/GPS/GLONASS):** Tri-system navigation for accurate location tracking.
- **NFC:** For contactless payments and data exchange.

## 4.3 Display and Camera

The device features a 5.7-inch HD display and integrated cameras.

# Professional-Grade Imaging

## 5.7 inch

 <b>720*1520</b> Resolution	 <b>9:19</b> Aspect Ratio	 <b>400 Nits</b> Brightness	 <b>13MP Rear+5MP Front</b> Camera
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Figure 6: Visual details of the SM5-T's 5.7-inch display, showing its 720x1520 resolution, 9:19 aspect ratio, 400 nits brightness, and camera specifications (13MP Rear + 5MP Front).

- **Display:** 5.7-inch HD (720x1520 resolution) with 400 nits brightness for clear visibility even in direct sunlight.
- **Cameras:** 13MP rear camera and 5MP front camera for capturing images and video.

## 4.4 Operating System and Performance

The SM5-T runs on Android 13, powered by an Octa-Core processor.

# MediaTek Helio T616 Octa-Core Processor



Figure 7: Depiction of the MediaTek Helio T616 Octa-Core Processor, highlighting 4GB RAM, 64GB storage (expandable with 1TB TF card), Android 13, Octa-Core architecture, and 2.0GHz clock speed.

- **Operating System:** Android 13.0, providing a modern and secure platform.
- **Processor:** Unisoc T616 Octa-Core Processor (1.8GHz) for seamless multitasking and efficient app performance.
- **Memory & Storage:** 4GB RAM + 64GB internal storage, expandable via TF card for growing data demands.

## 5. MAINTENANCE

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### 5.1 Cleaning and Care

Despite its rugged design, proper care ensures the longevity of your device:

- Wipe the screen and body with a soft, damp cloth. Avoid abrasive cleaners or solvents.
- Ensure all port covers are securely closed to maintain IP68 water and dust resistance.
- Regularly clean the scanner window with a lint-free cloth to ensure optimal scanning performance.

### 5.2 Durability Features

The SM5-T is built to withstand harsh conditions:



Figure 8: Demonstrates the SM5-T's military-grade durability, showcasing its IP68 waterproof and dustproof capabilities (top image) and its ability to withstand 4.9FT drops (bottom image).

- **IP68 Certified:** Provides absolute dust resistance and robust waterproof protection (1.5m depth for 30 minutes).
- **MIL-STD-810G:** Withstands 1.5m (4.9ft) drops, violent downpours, and airborne debris.
- **Temperature Range:** Designed to operate in extreme temperatures from -25°C to 50°C.

## 6. TROUBLESHOOTING

This section addresses common issues you might encounter with your SM5-T terminal.

- **Device not powering on:** Ensure the device is fully charged. Connect it to the charger and wait a few minutes before attempting to power on again. If the issue persists, try a different charger or cable.
- **Barcode scanner not working:** Ensure the scanner window is clean and free of obstructions. Verify that the scanning application is open and active. Check if the barcode is damaged or poorly printed.
- **Connectivity issues (Wi-Fi/4G/Bluetooth):** Check if Wi-Fi, mobile data, or Bluetooth is enabled in the device

settings. Ensure you are within range of a network or paired device. For cellular issues, verify SIM card installation and network coverage.

- **Device freezing or slow performance:** Close unnecessary background applications. Restart the device. If performance issues continue, consider clearing cache or performing a factory reset (back up data first).
- **Battery draining quickly:** Reduce screen brightness, disable unused connectivity features (Wi-Fi, Bluetooth, GPS) when not needed, and close background apps.

If you encounter issues not covered here or require further assistance, please refer to the Warranty and Support section.

## 7. SPECIFICATIONS

Feature	Specification
Model Name	Breloom SM5-T
Item Model Number	4GB+64GB w/2D Barcode
Operating System	Android 13.0
Processor	Unisoc T616 Octa-Core (1.8GHz)
RAM Memory Installed Size	4 GB
Memory Storage Capacity	64 GB
Screen Size	5.68 Inches
Display Type	LCD
Battery	4000mAh (Nonstandard Battery, included)
Cellular Technology	4G (28 global bands)
Wireless Connectivity	Wi-Fi 802.11ac, Bluetooth 5.0, NFC
Navigation	BDS/GPS/GLONASS
Barcode Scanner	Newland NLS-N1 (1D/2D)
Durability	IP68 Waterproof & Dustproof, MIL-STD-810G Drop Tested (1.5m)
Operating Temperature	-25°C to 50°C
Product Dimensions	6.1 x 3 x 0.52 inches
Item Weight	15.8 ounces
Manufacturer	Breloom
Country of Origin	China

## 8. WARRANTY AND SUPPORT

Breloom is committed to providing reliable products and excellent customer service.

- **Warranty:** The Breloom SM5-T Rugged Handheld Terminal comes with a 12-month warranty from the date of purchase. This warranty covers manufacturing defects and malfunctions under normal use.
- **Technical Support:** Breloom pledges lifetime technical support for the SM5-T. Our 24/7 enterprise-grade service team is available to assist you with any technical queries, software updates, or hardware-related concerns.

For support, please visit the official Breloom website or contact our customer service team through the contact information provided with your purchase documentation.