

# Super Super Ultrasonic Mega Phone User Guide

## Introduction

Welcome to the Super Super Ultra Sonic Mega Phone! This guide will help you get started with your new device, covering the essential functions and features.

## Device Overview

### Hardware

1. **SIM 7600 4G HAT:** Provides 4G & LTE connectivity.
2. **Raspberry Pi:** The core computing unit.

### Software

- **Pygame GUI:** The graphical user interface for interacting with the phone.
- The app file comes pre-installed on the Raspberry Pi called SSUMP as an executable file on the desktop, providing an intuitive interface for making and receiving calls.
- Check out the files in this [GitHub Repository](#) with “super\_super\_ultrasonic\_mega\_phone.py” being the main code file.

## Using the Phone

### Making a Call

1. **Entering a Number:**
  - Use the number buttons on the screen or type to enter the phone number you wish to call.
2. **Sending the Call:**
  - Once the number is entered, press the 'Start Call' button on the screen.
  - The device will initiate the call using the SIM 7600 4G HAT.

### Ending a Call

1. **End the Call:**
  - During a call, press the 'Hang Up' button on the screen to hang up.

### Receiving a Call

- When an incoming call is received, the phone app will show a notification.

- You can answer the call by pressing the 'Accept Call' button on the screen.
- To reject the call, press the ' Hang Up ' button on the screen.

## Troubleshooting

- Restart the device if necessary.

### No Signal

- Ensure the SIM card is properly inserted.
- Check for coverage in your area.

### Call Fails to Connect

- Verify the phone number is entered correctly.
- Ensure there is sufficient signal strength.

### GUI Issues

- Ensure all connections are secure.

## Maintenance

- Keep the device in a dry and cool place.
- Avoid dropping or exposing the device to harsh conditions.

## Conclusion

The Super Super Ultra Sonic Mega Phone is designed to be user-friendly and efficient. Follow this guide to make the most out of your device.

## Resources

<https://www.youtube.com/watch?v=ABnwz-IYzqA>

<https://core-electronics.com.au/guides/raspberry-pi/raspberry-pi-4g-gps-hat/>

<https://www.waveshare.com/sim7600a-h-4g-hat.htm>

[https://www.waveshare.com/wiki/SIM7600A-H\\_4G\\_HAT](https://www.waveshare.com/wiki/SIM7600A-H_4G_HAT)

<https://cdn.robotshop.com/media/w/wav/rb-wav-177/pdf/4g-3g-gsm-gnss-lte-cat4-hat-raspberry-pi-datasheet.pdf>

<https://www.youtube.com/watch?v=Ri92Ce6ScKs&t=760s>

<https://www.youtube.com/watch?v=Gl9HS7-H0mI>