# User Manual

# OPEN-SOURCE



BADGE

vo.2 COMMUNICATIONS

### **Exploded View**

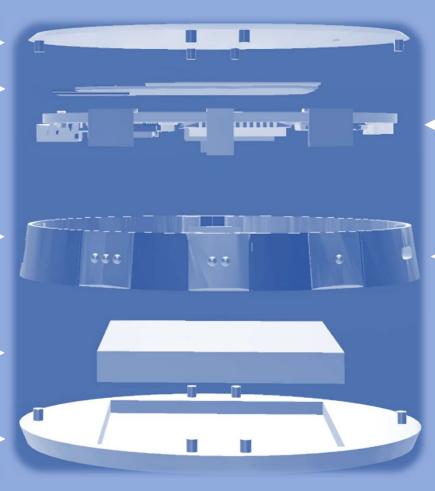
Swappable Face Plate

Capacitive GesturePad

USB-C Charge Port

1000mAh LiPo Battery

Recessed Magnetic Rear Panel



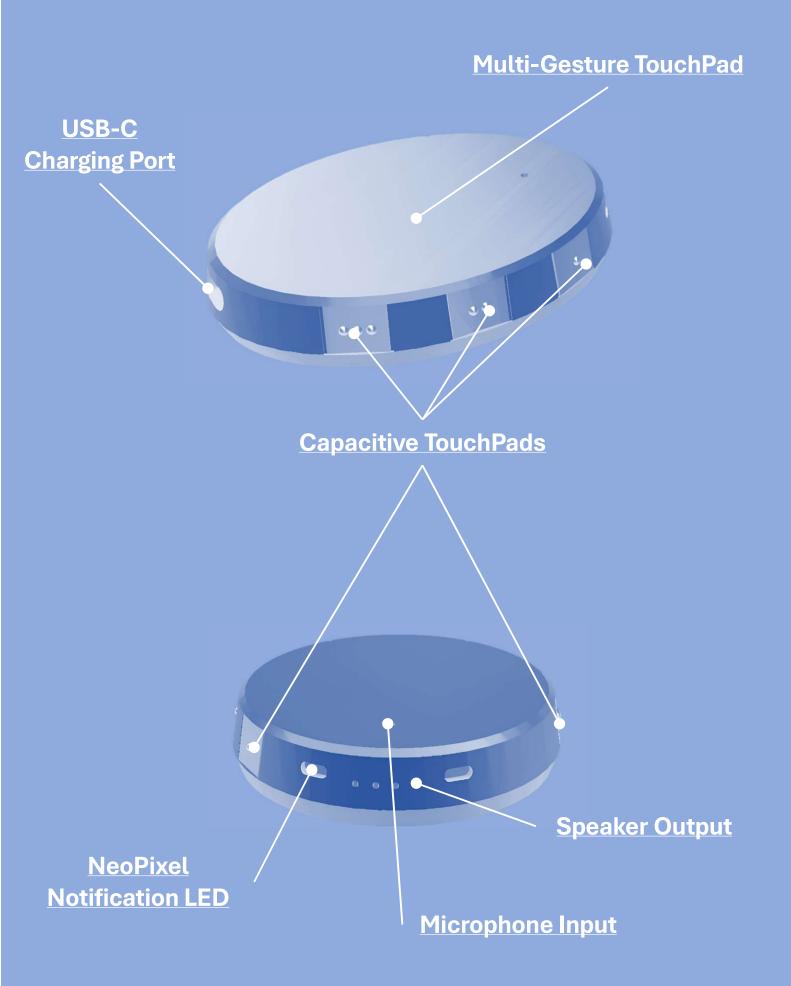
ESP32-S3 PCB

Featuring:

- \* INMP441
- \* 3.3v 1200mA Regulator
- \* MAX98357
- \* TP4056
- \* mSD Holder

NeoPixel Notification LEDs

## Layout



### **Commands & Functions**

After a **Tap** on the Main Capacitive GesturePad, counter of 10 seconds will begin, where **Listening mode** is active.

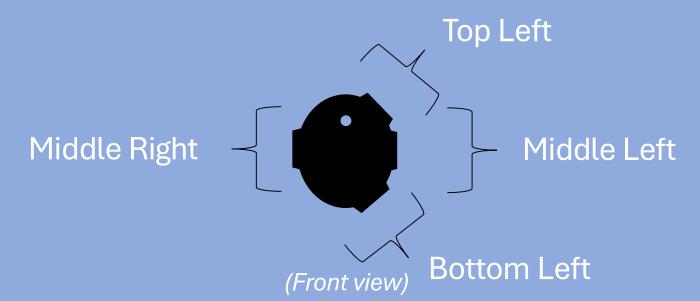
During **Listening Mode** speak one of the following to activate its function:

Command	Function
Call < <b>NAME</b> >	Calls Contact with matching name.  Badge searches for Matching <badge-id> from local Contacts list, Connects both Badges to a Private Channel.</badge-id>
Call BadgeID < <b>BADGEID</b> >	Calls specified BadgeID. (Speak Numbers Clearly & <b>Single</b> <b>Tap</b> when done)
*Add Contact ( <b>Combined with Gesture &amp; Chirp</b> <b>as method for sharing BadgeID</b> )	
*Translate to <b><language></language></b>	
Begin Recording / Start Recording	Starts recording for 20 seconds from microphone to microSD.  Saved as .wav

\* Not all features may be currently enabled

# **Secondary Touch Button Functions**

Button	Function
Middle Right	Function-Lock Key (SHIFT) Used to ensure no accidental activation of other buttons (HOLD to use)
Top Left	Contact Sharing Mode (See Gestures)
Middle Left	Mute
Bottom Left	On-Demand WIFI Configuration Access Point (Config-AP)



### Gestures

A **Tap** on the **Main Gesture Pad** or **SHIFT** will wake up the ComBadge from sleep.

The Following **Gestures** are available while awake:

Gesture	Function
Swipe Up	Contact Sharing (Send Mode): Send Name & BadgeID via Chirp to Receiving Badge in Receive Mode.  Normal Mode: Volume Up
Swipe Down	Contact Sharing (Receive Mode): Receive Name & BadgeID via Chirp from Sending Badge in Send Mode & Create New Contact -> Speak <name> Normal Mode: Volume Down</name>
*Swipe Left	
*Swipe Right	
Тар	Waking Tap: Wakes up the ComBadge from sleep and activates Listening Mode Tapping while Awake has no function.
Double Tap	<b>Already Awake</b> : Deactivates Listening Mode or Closes Current Call

<sup>\*</sup> Not all features may be currently enabled