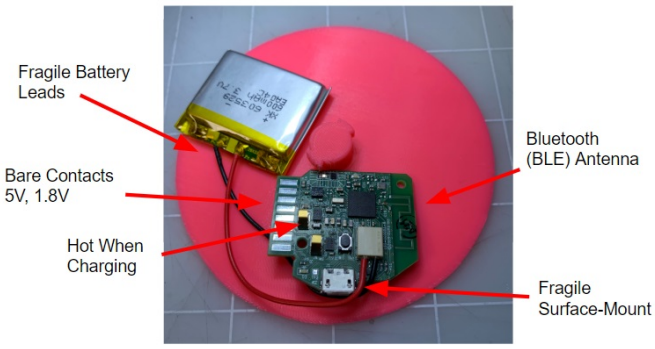
ZFA-SK1 User Guide

Updated: July 15, 2019

INTRODUCTION

Welcome to your ZFA-SK1 Dev Kit! This brief guide provides an overview of the hardware as well as safety precautions you must observe when working with this device.

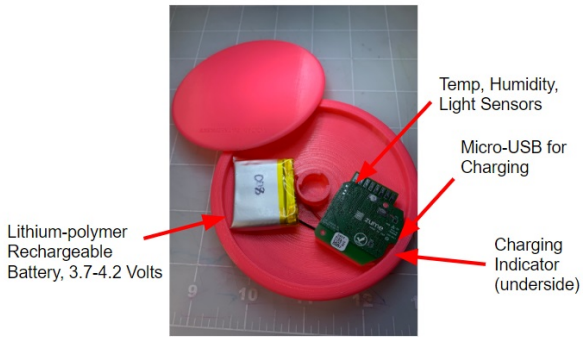


ZFA-SK1 is Always On.

There is no On / Off switch. The battery circuit will cause ZFA-SK1 to shut down when the battery has drained and there is no external power from a USB connection. The rechargeable battery has a protection circuit which will disconnect the battery when it's out of energy. ZFA-SK1 can be brought back to life and will power up when you plug in a USB charger using a Micro-USB cable. Be gentle when plugging in a charging cable. The connector is fragile and will break off if too much bending, torqueing force is applied.

SAFETY AND PRECAUTIONS

The device does not use anything higher than 5 Volts. When not charging, the maximum voltage is 4.2 Volts from the battery, and the device operates at 1.8 Volts.



- You can charge your ZFA-SK1 every day, but the device should run for at least one week with normal operations
- Contact Zume Support (see below) and return your ZFA-SK1 immediately if you notice any of the following
    - The unit feels warm at any time
    - Audible buzzing, ringing, or high pitch tones coming from the ZFA-SK1
- When charging begins, the area marked above may become warm.
- Do not dispose of your ZFA-SK1. Return it to Zume Support regardless of its condition
- Do not attempt to fix ZFA-SK1. Return it to Support for a replacement.

ADDITIONAL INFO

- A completely drained ZFA-SK1 should charge in 1.5 hours.
- When charging is complete, the green charging light will turn off.
- A fully charged ZFA-SK1 should broadcast for several days.
- ZFA-SK1 can be powered from USB with no attached battery.
- To get a wide swing in the Light Sensor reading, you need a lot of dark. Putting your finger or pizza sauce on it will cause only a small change. To drop the reading to near zero, you will need something very opaque like a pencil wedge cap eraser or dark pitted olive. Please do not apply pizza sauce or pitted olives directly to the sensor.
- The ZFA-SK1 sensor board was designed in-house.

NO UNAUTHORIZED MODIFICATIONS

Do not make any changes or modifications to this product without prior express written approval of Zume Inc. Any changes or modifications made without express written approval could void the user's authority to operate this product.

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, and (2) this device must accept any interference received, including interference that may cause undesired operation.

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.

—Increase the separation between the equipment and receiver.