

Quick Start User Guide



OSCIUM

WLAN Pi Go

Support

Thank you for purchasing this WLAN Pi product. You can visit <https://wlanpi.com> to find help, access the latest software image, downloads, and user manuals, and access online community resources.

Description

The WLAN Pi Go is a portable Wi-Fi network analysis, packet capture, testing, and troubleshooting tool intended for personal, non-commercial use only. The product is assembled in the USA with foreign-sourced components.

Safety

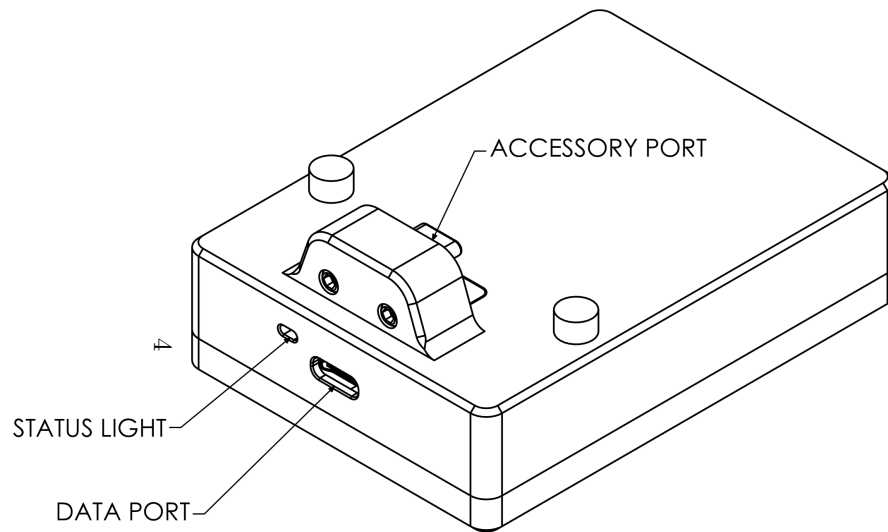
Your device may get hot to the touch; this is normal. If so, unplug the device and let it cool. This device complies with applicable surface temperature standards and limits defined by the International Standard for Safety (IEC 62368-1). Still, sustained contact with warm surfaces for long periods of time may cause discomfort or injury. Keep the device in a well-ventilated area when in use. Allow for adequate air circulation under and around the device. Do not expose the device to water or extreme conditions (moisture, heat, cold, dust), as the device may malfunction or cease to work when exposed to such elements. Do not attempt to disassemble or repair the device yourself. Doing so voids the warranty and could harm you or the device. This device is not designed, manufactured or intended for use in hazardous environments requiring fail-safe performance in which the failure of the device could lead directly to death, personal injury, or severe physical or environmental damage.

Included in the carrying case

- WLAN Pi Go
- Quick Start Guide
- Oscium Sticker
- WLAN Pi Sticker
- Cables:
 - USB Type-C to USB Type-C
 - USB Type A to USB Type-C

Setup instructions

Connect a cable from host (iOS/Mac/PC) to the USB Type-C data port on the bottom side of the Go.



Statement of conditions

This product contains software under BSD-3, MIT, and GPL license agreements. The product displayed on the packaging is for illustrative purposes only and may differ from the actual product. This product is packaged with a limited warranty, the acceptance of which is a condition of sale. Product warranty does not cover any data stored on the device. Please contact point of sale for additional warranty details and limitations.

A certain portion of the storage capacity may be reserved for firmware and maintenance use purposes. Availability and performance of certain features, services and applications are device and network dependent and may not be available in all areas; additional terms, conditions and/or charges may apply. All features, functionality and other product specifications are subject to change without notice or obligation.

We reserve the right to make changes to the product's description in this document without notice. Oscium, LLC and the WLAN Pi team do not assume any liability that may occur due to the use or application of the products described herein.

Limited warranty

Users are solely responsible for compliance with all laws of their locality. Oscium, LLC and the WLAN Pi team and affiliates claim no responsibility for unauthorized or unlawful use.

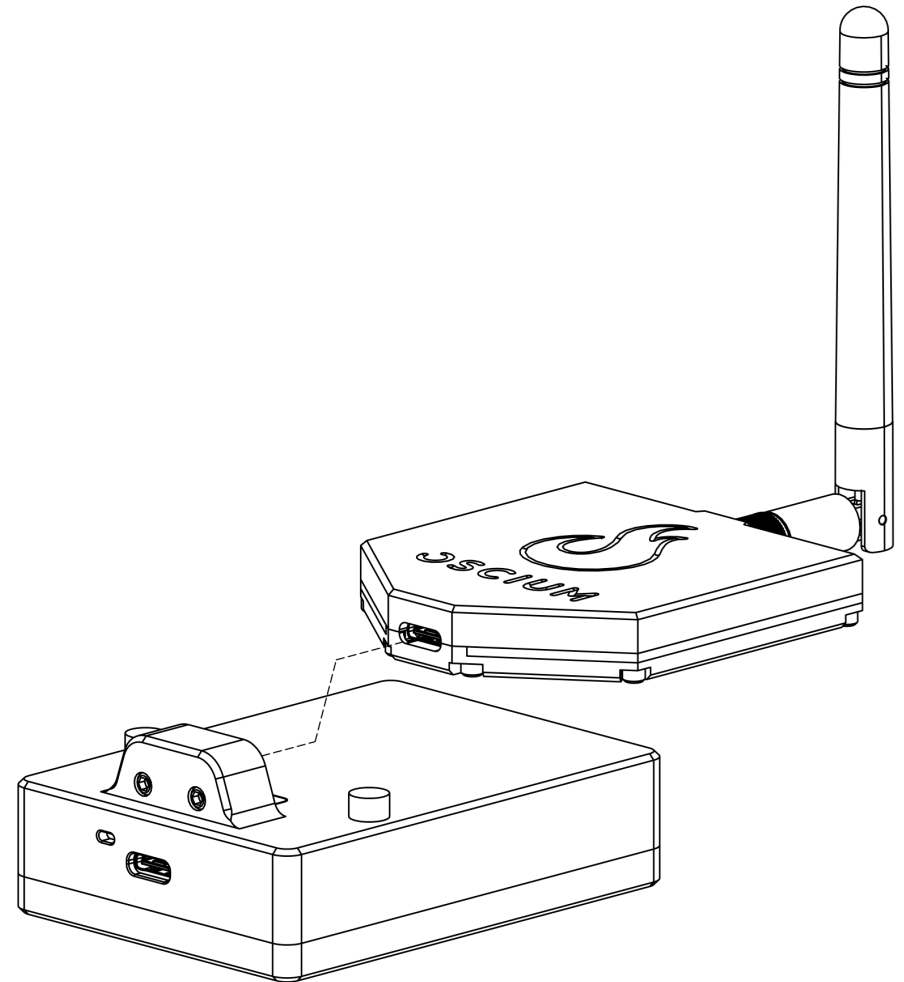
Trademarks

Intuitibits is a registered trademark of Intuitibits, LLC.

Oscium and Metageek are registered trademarks of Oscium, LLC.

WLAN Pi is a pending trademark of Big QAM, LLC.

Optional: Connect Wi-Spy Lucid to top of the WLAN Pi Go.



Hardware specifications

- Input Power: 5V / 900mA
- Host compatibility: Mac/Linux/Windows/iOS (USB Type-C versions)
- Interfaces: USB Type-C for USB OTG, USB Type-C dock for USB Host, MagSafe compatible
- Frequency Range: 2.4-2.485 GHz, 5.15-5.895 GHz, 5.925-7.125 GHz
- Wireless: Maximum Wi-Fi Signal rate complies with IEEE 802.11 standards.
- Standards: IEEE 802.11a/b/g/n/ac/ax/be
- Operating Temperature Range: 0° to 50°C
- Storage Temperature Range: -40° to 80°C
- Relative Humidity: 50
- Size: 1.3x2.4x3.3" (33x61x84mm)
- Weight: 5.5oz (156g)

The software does not support third party configuration control or permission to update or program the software for functionality out of compliance with the technical rules under which the product has been certified. While users are responsible for complying with all applicable laws, regulations, and licensing requirements in their jurisdiction, this does not exempt Oscium, LLC or WLAN Pi from its obligations regarding product compliance with the regulations of jurisdictions where the product is marketed and sold. This device complies with [TODO list specific regulations] in [TODO list specific jurisdictions]. Operation in other jurisdictions may require additional certification. Users should consult local regulatory authorities before operating this device in countries not listed above.

Transmission functionality (TODO)

The software provides a utility, called profiler, which performs low duty cycle transmissions to analyze the connection attempt of a Wi-Fi client for the purpose of determining the client's capabilities. This low duty cycle transmission is the only permitted use. Low duty cycle transmission refers to the device's operation at a transmission duty cycle of less than X% (TODO), meaning the device transmits for no more than X (TODO) seconds in any 100-second period.

This device is certified exclusively for profiler functionality utilizing low duty cycle transmissions as defined above. Any modification, operation mode, or transmission pattern not explicitly provided in the factory software constitutes unauthorized use, may violate FCC/CE regulations, and voids all warranties and certifications. Specifically prohibited uses include continuous transmission modes, high-power settings beyond certified levels, and any transmission outside authorized frequency bands.

How to use

The product can be used and controlled via a local API. There are several pre-built mobile applications which can interface with the device.

Some examples of existing applications compatible with the product include:

- WLAN Pi App on iOS/Android
 - by Numerous Networks Ltd
- WiFi Explorer Pi on iOS
 - by Intuitibits, LLC
- Metageek App on PC
 - by Oscium, LLC

Factory reset procedure

1. Visit the support section for software image download links
2. Power off your device completely
3. Insert the reset pin into the small hole on the device
4. Connect the device to computer via cable to power it on while keeping the reset pin pressed
5. Hold the reset pin for 5 seconds
6. Release the pin causing the device to boot into mass storage mode
7. Flash image from step 1 using balenaEtcher (<https://etcher.balena.io/>)
8. Eject the device from the computer
9. Disconnect and reconnect the device

This process may take several minutes to complete. Do not interrupt the process once started in order to avoid data corruption.

Conformity (TODO)

1. EMI testing document link (TODO).
2. Safety testing document link (TODO).

This device is exempt from Specific Absorption Rate (SAR) testing based on compliance with X, Y, Z Section 1.2.3 [TODO], which establishes SAR testing exemptions for devices operating below specified power thresholds.

Specifically, this device operates at a maximum transmission power of [X mW] with a low duty cycle of less than [Y%], which places it below the exemption threshold of [Z mW] established by regulatory authorities. This device is exempt from any further or specific SAR testing based on the described low duty cycle transmission. Complete RF exposure compliance documentation is available upon request. See the transmission functionality section for more details.