

# Configurations

LWR-1050-A0-P1 (North America)

LWR-1050-E0-P1 (European Union, United Kingdom)

LWR-1050-Z0-P1 (Australia, New Zealand)

## Architectural Specs

The ListenWIFI LWR-1050 Wi-Fi Audio Receiver shall be a digital receiver operating in the 2.4 and 5 GHz unlicensed Wi-Fi bands. The device shall be able to receive high quality, low latency audio channels being broadcast from ListenWIFI servers on a local area network.

The device shall be simple to operate with easy to access power button on top, channel up and down buttons on the front, and volume up and down buttons on the side. It shall have a 3.5 mm TRRS CTIA compliant headset connection on top, allowing the connection of standard wired ear speakers and headphones. The device shall have a 64 x 128 OLED display with auto dimming capabilities, displaying the current device status (volume level, mute, profile name, battery and charging status, time remaining, Wi-Fi signal strength, language, unit ID, etc.). It shall be powered via a field-replaceable, non-proprietary rechargeable lithium-ion battery, and have a 7 hour run time of continuous audio streaming. The device shall incorporate automatic battery charging circuitry to charge and maintain the lithium-ion battery via the USB micro connector on the side, or via a Listen Docking Station utilizing contacts on the bottom of the device.

The device shall also support automatic channel triggering. It shall have an infrared photodiode that detects an Infrared (IR) SyncLink® signal allowing the device to automatically trigger and connect users to a specified channel when in range of a Listen Beacon. For multi-lingual applications, the receiver shall automatically connect users to their preferred language. Manual channel selection may also be made available via the soft buttons on the front panel.

The device shall employ full encryption of all control and data communications, ensuring security and complete confidentiality. The device also supports PIN or password protection of audio channels for highly confidential applications. The device shall have a signal-to-noise ratio of 84 dB or greater and shall have an

audio frequency response of 20 Hz – 20 kHz ( $\pm 1$  dB). The receiver shall have audio latency of less than 40 mS on a good and properly configured network.

All ListenWIFI system components at a venue, including receivers, shall be set up and managed via the ListenWIFI Manager installed software which shall not be required during use or runtime. The software shall support full configuration and management of a venues ListenWIFI audio system, including servers, mobile apps, receivers, and beacons. The Manager software shall have an integrated firmware update tool for all system components.

The ListenWIFI LWR-1050 Wi-Fi Audio Receiver is specified.