



Configuration:

LW-110-02-01 (North America, Plug B)

LW-110-02-02 (United Kingdom, Plug G)

LW-110-02-03 (European Union, Plug F)

LW-110-02-04 (Australia, Plug I)

Product Overview:

The ListenWIFI Audio Server LW-110-02 is capable of broadcasting 2 channels of analog audio to audiences of up to 500 users. Connect to your existing Wi-Fi network and stream real-time audio directly to your guests' personal smartphones via our free ListenWIFI mobile app. Additionally, it can transmit audio directly to dedicated LWR-1050 Wi-Fi Audio Receivers within the venue. Whether you're ensuring assistive listening compliance or addressing challenging audio environments, rest assured that your guests will receive crystal-clear messages with the use of ListenWIFI.

ListenWIFI servers are scalable and flexible. Additional ListenWIFI servers can seamlessly join the network, enabling higher channel counts and accommodating more users. ListenWIFI servers also support an automated channel selection where listeners are automatically connected to the appropriate audio channel based on their location. Simply integrate LA-490 beacons with the ListenWIFI server.

The ListenWIFI Windows® software provides a user-friendly interface for configuring and overseeing your ListenWIFI servers as well as other ListenWIFI products within your venue. These include servers, mobile apps, receivers, and beacons. With this powerful tool, you can customize mobile apps to align with your venue's branding. Tailor welcome messages, incorporate sliding banners, display channel names and images, promote special offers, and share essential documents—all seamlessly integrated through the ListenWIFI Manager software.

From classrooms to houses of worship, theatres and more, the ListenWIFI Audio Server stands as an exceptional choice for assistive listening. Experience superior audio quality and industry-leading low latency audio at your venue with ListenWIFI.

Highlights:

- Global ALS solution worldwide compliance (with receivers and neck loops)
- Flexible listening options Dedicated receivers or guests' own smartphone
- Uses existing wireless network (Wi-Fi) provides broad venue-wide coverage
- Scalable solution- seamlessly add more servers for additional channels/users
- Up to 500 users scalable with more servers
- 2 channels per server scalable with more servers
- Analog inputs consumer and professional
- Superior audio performance Industry-leading latency
- Network flexibility supports small networks to large enterprises
- Supports triggered audio using LA-490 Beacons
- QR code channel access mobile apps scan QR codes for channel selection
- Public Address override venue wide broadcasts for public announcements
- LW Manager software Complete setup and management system (Windows®)

Includes:

One (1) LW-110-02 ListenWIFI 2 Channel Wi-Fi Audio Server One (1) Power Supply One (1) 1.83M (6 ft.) RCA Cable One (1) 1.83M (6 ft.) CAT6 Cable One (1) Quick Start Guide



Product Specification: ListenWIFI 2 Channel Wi-Fi Audio Server Physical		
Unit Weight	.59 kg (1.3 lbs)	
Shipping Weight	1.6 kg (3.6 lbs)	
Rack Space	1RU 19" rack (requires LW-327 rack mount kit)	
Enclosure material	Powder Coated Stainless Steel	
Color	Dark Grey	
Power Button w/LED	Chrome-plated steel with built in LED	
	Audio	
Audio Output Method	RJ-45 Ethernet Port	
Frequency Response (system)	20 Hz - 20 kHz ± 1dB (at nominal level)	
Distortion (system)	< 1% Total Harmonic Distortion (at nominal level)	
Signal to Noise Ratio (system)	> 74 dB (at nominal level)	
Dynamic Range (system)	86 dB (at maximum level)	
Latency (system)	40-60 ms, dependent on network, traffic, QOS, and listening device	
	Interconnections	
Balanced Audio Inputs	Terminal Blocks: Two analog inputs, rear panel, one terminal block connector per input, balanced, +4 dBu (line) nominal input level, +16 dBu maximum input level, impedance 100k ohm	
RCA Audio Inputs	RCA: Two analog inputs, rear panel, one dual summing RCA connector per input, unbalanced, -10 dBu (line) nominal input level, +2 dBu maximum input level, impedance 100k ohm	
	*Stereo operation requires the use of both inputs	
Public Address (PA) input trigger level	Channel override occurs when audio is detected 23 dB below nominal input level. Terminal Blocks: -19 dBu (nominal +4 dBu) RCA Connectors: -33 dBu (nominal -10 dBu)	
Ethernet	RJ-45 supports 10/100/1000 Mbps speed. Green LED flashes at 100 Mbps, Yellow LED flashes at 1000 Mbps. Maximum 100m (328') CAT5/6 cable length	
USB	Type A 2.0 (female) - supports reset to defaults USB drive	
	Communications	
IP Address	DHCP, Static, Reserved	
Prioritization	QoS/ToS	
Users	500 per server - Multiple servers may be used to increase the number of users.	
Max Channels	2 mono (1 stereo) - Multiple servers may be used to increase the number of channels.	
WAP Support	802.11n or better with WMM (Wireless Multi-Media) enabled	
Bandwidth (audio)	125 kbps per listening device	
Bit depth	16 bits	
Sampling Rate	48 kHz	
Transport Protocols	Unicast RTP, UDP, HTTPS	
Discovery Protocols	mDNS, DNS-SD, DNS	



Product Specification: ListenWIFI 2 Channel Wi-Fi Audio Server	
Security	TLS 1.2 (AES 128 bit)
USB	2.0
Latency (system)	40-60 mS, dependent on network, traffic, QOS, and listening device
Supported Listening Devices	iOS and Android personal smartphones supported with the ListenWIFI mobile app installed. Free download from the Google Play and Apple App stores.
	LWR-1050 Wi-Fi Audio Receivers - for dedicated applications, for compliance, for use as backup devices, for accessibility requirements, etc.
	Controls and Indicators
User Controls	Power Button
Power Button LED	Flashing blue - server is booting up establishing network connection; Solid blue - server is fully booted with valid network connection; Rapid flash blue - server firmware is being updated or reset to defaults
Setup/Programming	Free software available for on-premise central management of all Wi-Fi audio servers on the network. The ListenWIFI Manager software provides central management of the entire ListenWiFI system, including Servers, Beacons, Receivers, and Mobile Apps. Software also facilitates checkout / check-in of receivers, as well as mobile app customizations to support venue branding.
	Power Supply
Connector	5 VDC Barrel (center positive)
Input Voltage	100-240 VAC, 50-60Hz
Output Voltage	5 VDC
Current	6.0 A
Power	30 W
Configurations	01 = North America Plug Type B; 02 = United Kingdom Plug Type G; 03 = European Union Plug Type F; 04 = Australia, Plug Type I
	Environmental
Temperature - Operation	-10 °C (14 °F) to +40 °C (104 °F)
Temperature - Storage	-20 °C (-4 °F) to +50 °C (122 °F)
Relative Humidity	0 to 95% relative humidity, non condensing
	Compliance
Regulatory Standards	UL, FCC, CE, ROHS, UKCA
Warranty	
Server Warranty	2 years
*Specifications are subject to change without notice	