

WREN

WiFi Store Forward Audio Transmitter



Features

- Small size, long term audio recorder/transmitter via WiFi
- Large memory capacity up to 300hrs @8kHz sample rate
- Download time approx 5 minutes for 24hrs stored audio
- Automatic gain control and voice activated recording
- All records are exported or reviewed via the included s/w
- Online listening through host PC
- Searchers only for WiFi signal from host computer
- External Knowles microphone (optional)
- Integrated rechargeable Li-ion battery (cased version)
- Supplied cased or flat PCB board
- Represents a new concept in covert audio data acquisition and transmission

Applications

- Innovative tactical system for wireless covert audio surveillance
- Standard indoor surveillance operations
- Long-term deployments, very difficult to detect
- Field deployable system, live listening post
- Homeland Security



The WREN WiFi Store Forward Audio Transmitter is a new concept in audio surveillance, combining an audio recorder with an integrated WiFi interface that is used for recording and online listening.

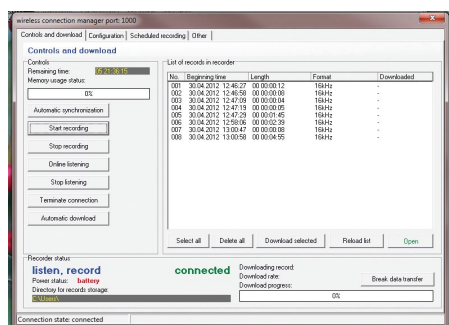
This allows the user to download all recordings without the need of direct connection with the recorder. All audio records are stored to internal memory and can be transferred via WiFi at any time, or listened to Live. Connection is direct via WiFi with the host computer or via Internet.

Large memory capacity can store up to 300hrs (12 days) of continuous recording, this can be extended using voice activated mode. Data transfer to host computer is very fast and takes approx 5 minutes for 24hrs of recorded audio.

The WREN WiFi Store Forward Audio Transmitter does not transmit until the user initiates transfer from host PC to establish connection. This mode of operation is virtually undetectable.

Record settings include timer programmable recording and voice activated recording.

Recordings can be played back and edited using the supplied s/w operating under Windows. Each record contains real-time stamp. ■



The WREN software provides easy access to all records

Technical Specifications

General	
Dimensions	55x29x18mm (cased) / 52x26x4mm (PCB board)
Battery	Integrated Li-ion, capacity: 850mAh (cased) PCB version supports lithium batteries 400–1500mAh
Voltage input	3.3 - 6.0V, powered via micro USB
External supply current	upto 500mA (charging the internal battery)
Scheduled recording	Selectable periods for each day/week
Battery life in record mode	120hrs including data transfer (depending on configuration)
Memory capacity	300hrs (in a loop) @ 8kHz sample rate
Data storage	Removable MicroSD card
Export audio format	WAV format with real-time marking
Audio	
Audio bit width	16bit
Sample rate	16kHz or 8kHz
Signal to noise ratio (SNR)	>75dB
Sensitivity of built-in microphone	Approx. 8-10m
Voice activated recording	Yes
Automatic gain control (AGC)	Yes
Audio input	Internal/external (optional) microphone
WiFi & Network	
Data transfer rate	11Mbit
Output WiFi power	20dBm
Antenna	Integrated 2dBi, external (optional)
WiFi modes	802.11b/g (client mode)
Network configuration	Static IP or DHCP

Product Codes

WREN WiFi Store Forward Audio Transmitter - Full Systems

3-299-550* WREN WiFi Store Forward Audio Transmitter (cased) with internal rechargeable Li-ion battery

3-299-555* WREN WiFi Store Forward Audio Transmitter (PCB board) with fly leads & 4GB Micro-SD card

*All kits come as standard with: internal microphone, high power WiFi adapter/router with antenna, USB cable, s/w and guidance manual

WREN WiFi Store Forward Audio Transmitter - Components & Upgrades

3-299-551 WREN WiFi Store Forward Audio Transmitter (cased) – c/w internal microphone, internal rechargeable Li-ion battery, s/w & USB cable

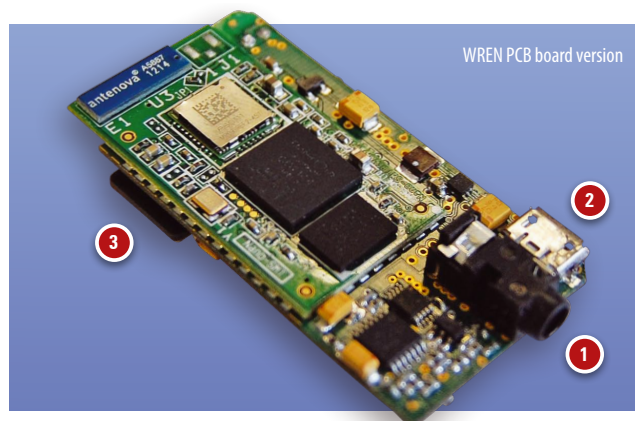
3-299-553 WREN WiFi Store Forward Audio Transmitter (PCB board) – c/w internal microphone, fly leads, 4GB Micro-SD card, s/w & USB cable

3-299-552 High power WiFi adapter/router with antenna

3-299-554 External Knowles microphone 1M lead

Legend:

- 1:** External mic input
- 2:** Micro USB port
- 3:** Micro SD card



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