AirStreamer

The HRT AirStreamer is a high performance, two piece wireless audio solution that is ideal for situations where the user and the audio system are separated and a USB cable run is either impractical or undesirable.

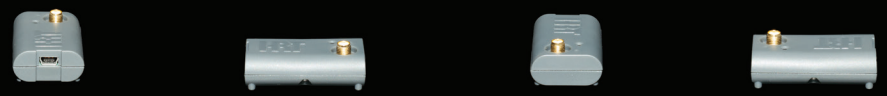
The AirStreamer 'receiver' contains a high performance RF (radio frequency) front end, a 24 bit differential mode DAC, along with a sophisticated analog reconstruction filter and output amplifier. Capable of moving high resolution audio (24 bit depth) at sample rates which include 32 kHz, 44.1 kHz, and 48 kHz, the AirStreamer is ideal for music, audio-video, gaming, professional audio, and commercial applications.

Housed within a robust extruded aluminum enclosure, and equipped with RCA style analog audio outputs, the AirStreamer is easy to setup and use with a single step pairing process. A front panel LED allows for a quick determination of the mode of operation (locked and streaming, locked and not streaming, pairing ready, and not paired).

Power for the AirStreamer is via an included AC mains power supply and a 2 meter USB A to mini B cable. Simply connect the AirStreamer's line level output to the analog input of any audio system, and you are ready to enjoy high performance audio, without the need for either a wireless network or any complex WiFi setup steps.

The AirStreamer uses a look ahead frequency hopping approach that will automatically accommodate changes based upon other RF devices that might compete for spectrum. Latency is managed and low so that the AirStreamer can be used in audio-video applications without any concern for 'lip sync' issues.

With a level of performance that far exceeds Bluetooth and other low quality wireless interfaces, and without the complexity of network based wireless solutions, the AirStreamer is the ideal solution for any audio application.



The included Wireless Master is a small, USB powered and connected ‘transmitter’ that links seamlessly with the AirStreamer ‘receiver’.

Utilizing the same frequency hopping approach that the AirStreamer does, and with the same simple, single step pairing process, use and operation couldn’t be any simpler.

When connected to any USB host (computer, tablet, smartphone, or similar) the Wireless Master will present itself as a USB Audio Class 1.0 devcie and the enumeration process is virtually automatic for any modern operating system. Utilizing native, UAC1 drivers, no software is required and setup is simply informing the host that the AirStreamer is your intended audio destination.

Equipped with a removable SMA connected antenna, the range can be extended beyond the normal 20 meter limit by simply replacing the included antenna with an optional, higher gain, version.

Designed with extremely low power as an important goal, the Wireless Master can be used with a large range of hosts including many smartphones and tablets. As a fully compliant USB devcie, an ultra low power sleep state is automatically used when the host instructs the Wireless Master to enter sleep. With its optimized RF design, the Wireless Master will run for extended periods of time without consuming excessive power from portable hosts.

With an included USB A to mini B cable which is detachable, the Wireless Master can be placed conveniently and with its flexible connection, even handheld hosts such as smartphones make for practical parings.

The AirStreamer is an ideal solution for moving high quality audio via a simple to configure and use, wireless link. With its very low power requirements, the AirStreamer is ideal for computers, tablets and smartphones.

The HRT AirStreamer includes the ‘receiver’, ‘transmitter’, USB and power cables, mains power supply, and both antennas. All that is needed is a host and an audio system and your ready to go in a matter of moments.

High perfromance, easy to use, and wireless can all be had in one product, the HRT AirStreamer, available now at your HRT reseller.

Specificaiton	AirStreamer
DAC section	
DAC	TI DSD1792
Sample Rate	up to 48 kHz
Bit Depth	24 bit
Jitter contribution (DC to 30 kHz)	>120 dB below full scale
Analog section	
Output amplitude	2.25 Volts RMS
Output impedance	50 Ohm
Frequency response (20 Hz - 20 kHz)	+0 dB / -.2 dB
THD + N	< .01%
Noise floor (DC to 22 kHz)	< 60 uV
Signal to Noise ratio (A-weighted)	> 90 dB
RF section	
Connector	SMA
Spectrum	2.4 GHz
Power supply section	
Mains	110 - 240 VAC 50/60 Hz
Requirements	< 5 VA
Mechanical	
Dimensions (envelope H x W x D)	1” x 2.5” x 5” (w/o antenna)
Weight	< .5 pounds

Specification	Wireless Master
USB section	
Interface	FS (full speed) 1.1 or above
Supported sample rates	32 kHz, 44.1 kHz, 48 kHz
Supported bit depth	24 bit
Audio Class	1.0
RF section	
Connector	SMA
Spectrum	2.4 GHz
Power supply section	
Source	USB
Requirements	< 50 mA
Mechanical	
Dimensions (envelope H x W x D)	.7” x 1.2” x 2” (w/o antenna)
Weight (each)	.1 pounds