



SHEERLINK™ /BY RTX

# UNLEASH THE POTENTIAL

Setting the standard for professional wireless audio

Sheerlink™ by RTX provides superior audio quality, low latency, and freedom from wires enabling your products to create greater experiences for artists and audio professionals.



# DIVE INTO SUPREME WIRELESS PERFORMANCE

Artists and audio professionals are always looking for ways to create greater experience for their audience - one of them is to enhance the performer's artistic freedom with wireless audio solutions. Today, the industry is dominated by cables due to the fear of latency, dropouts, and poor audio quality.

At RTX, we design and develop wireless audio solutions for the global market of semi-professional and professional audio device manufacturers that demand high audio quality and radio resilience in their product offerings. With over 25 years of experience, we have gained the expertise to deliver incredible sound quality in high-density radio environments whether you are at the studio, on the go, or on stage.

Sheerlink sets the standard for wireless high-definition audio and provides a superior sound experience setting free the creativity with your products. Designed for seamless integration and resilient performance in any environment, Sheerlink is highly configurable to meet your product requirements whether the focus is on robust connections, low latency, high audio quality, or intuitive usability. The solution is targeted wireless enablement of products, such as music instruments, microphones, speakers, headphones, headsets, etc.

# WIRELESS SOLUTIONS

Sheerlink product solutions are offered in the 1.9GHz and 2.4GHz frequency bands using the RTX1090 and RTX1290 communication modules. The modules are footprint compatible allowing reuse of hardware designs and applications on the radio architectures. Additionally, solutions will be offered using additional frequency bands for even higher capacity.

The Sheerlink offering allows partial or full product implementation of several wireless audio products, such as:



The very basic product configuration for a wireless microphone or instrument having one transmitter connected to one receiver used for e.g., wireless guitar connection to pedal board or microphone setup.

Product having multiple transmitters e.g., microphones or instruments on one receiver with the option of having return audio deployable, such as monitoring or feedback channel during content creation. Some of our most popular configurations are supporting two to four transmitters to one receiver used for e.g., multi microphone systems.



Studio grade headphones / IEM and headsets meant for recording studios, stage, and professional DJs. With low latency and high-definition audio, the studio headphone or headset is becoming unleashed with the Sheerlink solution.

# SUPERIOR AUDIO QUALITY

Achieving first-class audio quality in product designs can be challenging. Wireless products often claim to provide a specific range performance, but seldomly under which conditions which leads to a disappointing end-user experience.

At RTX, we take all measures into account when developing wireless solutions. With a deep understanding of radio performance, we complete tests and simulations focusing on the various conditions and extreme environments that can occur when operating in a given frequency band. The achievable range highly depends on the presence of reflective surfaces and blocking material e.g., walls and the interference caused by other wireless devices or household items. For more information, please refer to RTX white papers.

Sheerlink performs excellently in audio dropout range and interference tests. This also applies when comparing Sheerlink to professional audio products in the same frequency bands from well-known brands. Built around our Sheersound™ audio codec, Sheerlink solutions push the limit of technology and provide superior audio quality for wireless systems, including support for either mono or stereo in high-definition audio.

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A manufacturer of professional microphones tested a Sheerlink setup in their own test environment setup and stated:

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A manufacturer of professional audio equipment had their audio guru listen to the Sheersound codec and his opinion was:

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*“The audio quality is definitely at a high professional level”*

*“We had to expand our test setup in order to actually test the limitations of the radio”*



# MANUFACTURING INTEGRATION

Realize your product idea in mere minutes. To get a firsthand feeling of the audio quality, we can transcode (encode and decode) your preferred audio reference files (WAV), allowing you to compare Sheersound processed audio with your original audio. Furthermore, we can offer you evaluation kits for proof of concept of the radio and audio performance or try out one of our product demonstrators.

Along with the standard Sheerlink solutions, we also offer the capability and resources to deliver a complete ODM solution. This includes mechanical support, antenna matching and customization, product type approval, production test, and software customization - securing a fast way to market!

By deploying the highly configurable Sheerlink solution, you can focus on the implementation of your product signatures without having to become an expert in radio technology. Furthermore, with our global sourcing from key long-lasting suppliers, we can ensure your production is geared up for the demand.

By choosing RTX as a technology or ODM partner, you gain technologies that are field-tested and proven by professionals, and it enables you to tap into the present and future RTX radio and audio technologies and security.



*From idea  
to finished product*

# WHAT SHEERLINK IS ABOUT



Excellent audio quality

**48KHZ, 24 BIT**



Low latency

**DOWN TO 2.5MS**



Module solution

**EASY-TO-INTEGRATE**



Robust wireless link with

**EXTREMELY LOW INTERFERENCE ISSUES**



Supporting your product idea

**MULTIPLE CONNECTION MODELS**