StreamAMP
Complete high-end streaming speaker solution

StreamUnlimited
Connectivity for Things

The **StreamAMP** module is an ideal solution for any active stereo streaming audio speaker or aplifier product that is designed to provide outstanding sound. StreamUnlimited expertise ensures that state-of-the-art amplification, audio streaming functionality, and audio processing capability are included in one package. An iOS/ Android app for control and setup is included, which connects the end user seamlessly with all major music services. Power supply and amplification are realised through a StreamUnlimited partnership with Hypex, relying on the popular NCORE Class-D technology.

The selected components and the audio signal flow have been designed to provide very low distortion figures, making them ideal for the high-end audio segment.

Product options / Configurations

The StreamAmp Module is available with several Hypex NCORE amplifiers. Base functionality uses NC122MP (2x75W) or NC252MP (2x150W). Further options include NC500MP (1x270W) and NC100HF (1x100W - >500Hz).

Audio connectors can be selected from a list of options, and the backplate of the product will be manufactured accordingly. Alternative combinations to base functionality may be subject to quantity-based requirements.

Certifications

The StreamAmp Module is pre-certified for AirPlay Audio, Spotify Connect, Roon, TIDAL Connect, CE, RED, and Wi-Fi. It is also a listed Bluetooth product.
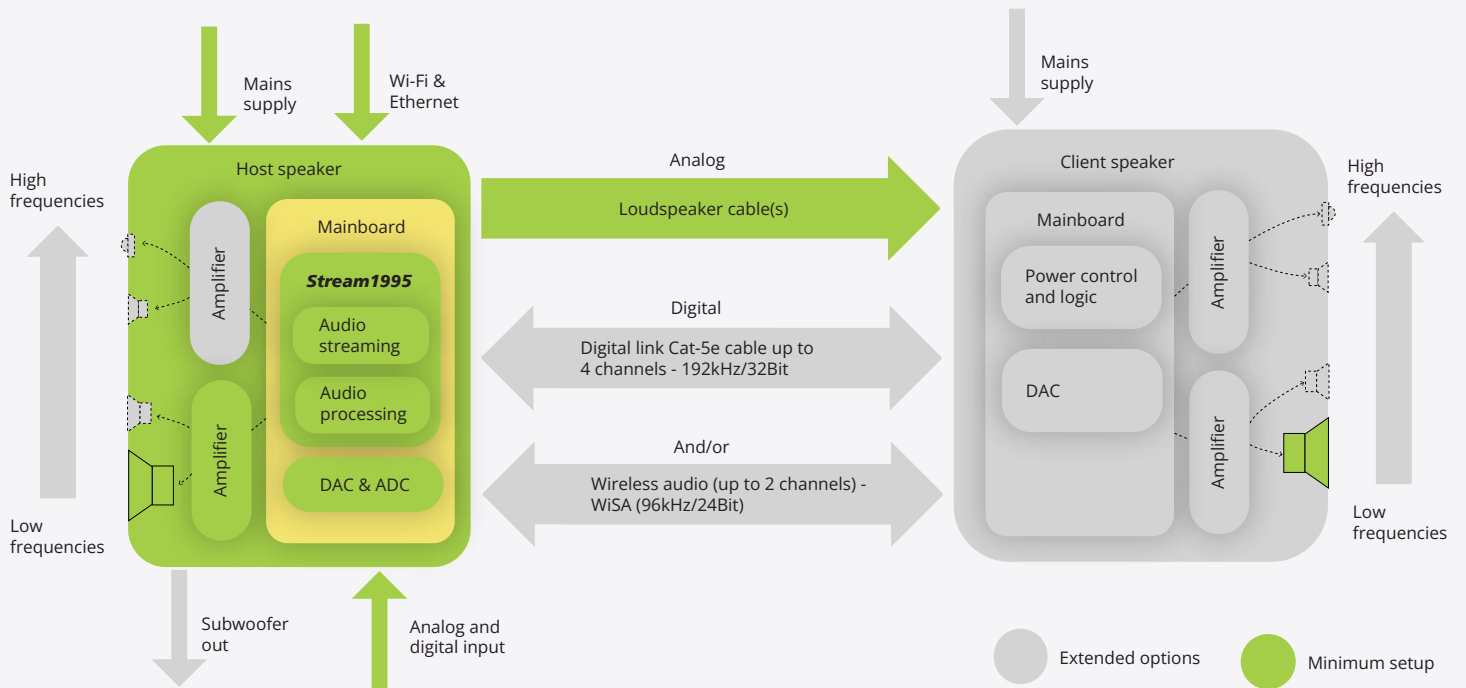
Base Functionality

‣ WiFi and Ethernet connection
‣ Spotify Connect
‣ Tidal Connect
‣ AirPlay Audio
‣ Roon
‣ Airable radio index and podcasts
‣ UPnP / DLNA media-renderer
‣ Audio inputs: HDMI eARC, analog, SPDIF
‣ Illusonic audio processing (crossovers + loudspeakers compensation)
‣ BLE remote control support
‣ Digital audio link with cable (up to 192kHz/32Bit)
‣ iOS / Android control app
‣ Capacitive control panel with LED level meter and 5 buttons which can be freely assigned on the host speaker
‣ Up to 4-way speakers

Additional Features

‣ Dirac Room Correction
‣ Bluetooth audio
‣ Dante Rx / TX on host speaker
‣ Wireless (WiSA standard - up to 96Khz.24Bit)
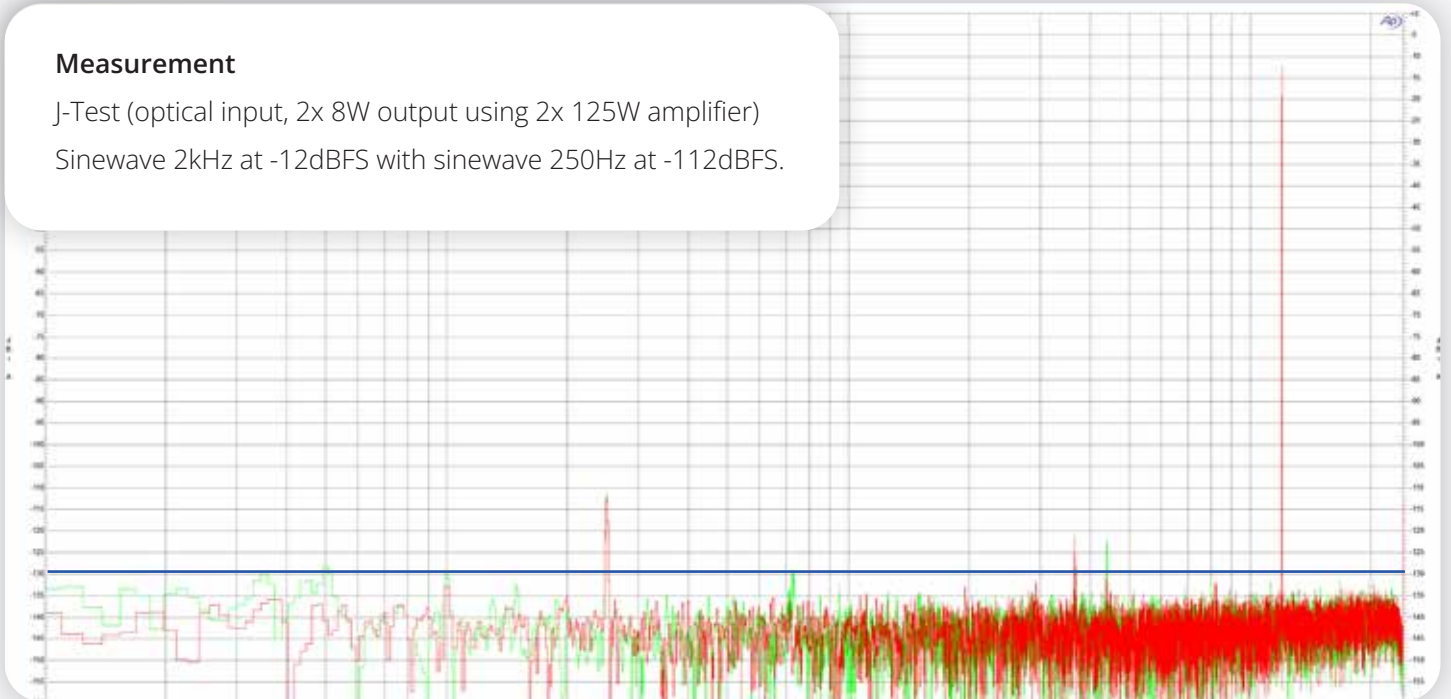‣ Photo input, USB audio input, Amazon Music HD, and more.

Key Points

‣ Excellent audio quality
‣ Music services are fully certifiable and implemented according to the official rules
‣ Designed and manufactured in Europe
‣ Fast time to market
‣ Upgradability long-term maintenance
‣ High flexibility to re-use parts of the hardware and customise the final product

StreamAMP

Complete high-end streaming speaker solution

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Mains supply · Wi-Fi & Ethernet

High frequencies

Host speaker

Amplifier

Mainboard

Stream1995

Audio streaming

Audio processing

DAC & ADC

Amplifier

Low frequencies

Analog
Loudspeaker cable(s)

Digital
Digital link Cat-5e cable up to 4 channels - 192kHz/32Bit

And/or
Wireless audio (up to 2 channels) - WiSA (96kHz/24Bit)

Mains supply

Client speaker

Mainboard

Power control and logic

DAC

Amplifier

Amplifier

High frequencies

Low frequencies

Subwoofer out

Analog and digital input

Extended options · Minimum setup

Measurement

J-Test (optical input, 2x 8W output using 2x 125W amplifier)

Sinewave 2kHz at -12dBFS with sinewave 250Hz at -112dBFS.

StreamUnlimited, founded in 2005, is a supplier of software solutions and hardware modules for connected audio and IoT products, with over 120 employees at office locations in Vienna, Bratislava, Iasi, Shenzhen, Japan and Santa Clara, CA. As the de facto global system integrator offering its own IP and engineering services, StreamUnlimited development partnerships include all major semiconductor companies and technology providers in the consumer electronics and IoT channel. StreamUnlimited works with a global cross-section of high-end audio, CEDIA-channel, premium and mainstream consumer electronics and smart home manufacturers.

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