StreamAmp Module
Complete High-End Streaming Speaker Solution

Overview

The StreamAmp Module is an ideal solution for any active stereo streaming audio speaker product that is designed to provide outstanding sound.

StreamUnlimited expertise ensures that state of the art amplification, audio streaming functionality and audio processing capability is 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 is 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.

Spotify

TIDAL connect

airable

ILLUSONIC

AirPlay 2

roon
The music player for music lovers

WiSA
WIRELESS SPEAKER & AUDIO

dlna UPnP

Base Functionality:

• Wi-Fi and Ethernet connection
• Spotify Connect
• TIDAL Connect
• AirPlay 2
• Airable radio index and podcasts
• UPnP / DLNA media-renderer
• Audio Inputs: HDMI eARC, Analog, SPDIF
• Illusonic audio processing (crossovers + loudspeaker 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 host speaker
• Up to 4 way speakers

Additional Features:

options available, may be subject to quantity requirements

• Roon
• Optional subwoofer output
• Dante Rx on host speaker
• Wireless (WiSA standard - up to 96kHz.24Bit)
• Dirac room correction, USB audio input, Amazon Music HD, Phono input and more.

Key Benefits:

• Excellent audio quality
• Music services fully certifiable and implemented according to the official rules
• Designed and manufactured in Europe
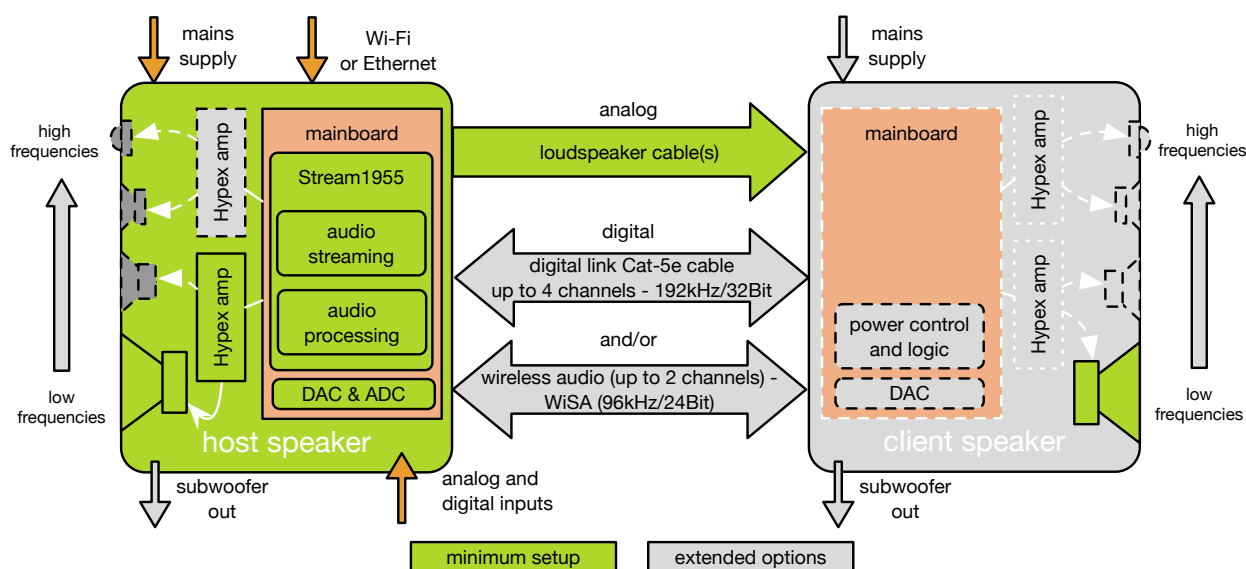• Fast time to market
• Consideration for long-term maintenance

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.
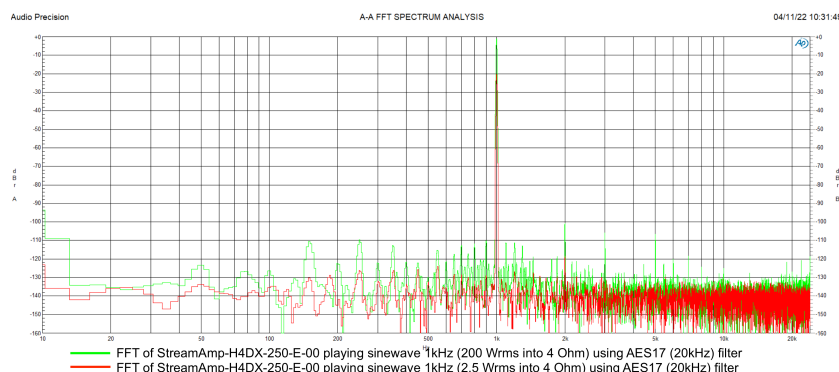
Certifications

The StreamAmp Module is pre-certified for AirPlay2, Spotify Connect, Roon, TIDAL Connect, CE, RED and Wi-Fi. It is also a listed Bluetooth product.

Measurement Example

Audio precision - THD+N 1W/8 Ohm / sine at 1kHz

FFT of StreamAmp-H4DX-250-E-00 playing sinewave 1kHz (200 Wrms into 4 Ohm) using AES17 (20kHz) filter
FFT of StreamAmp-H4DX-250-E-00 playing sinewave 1kHz (2,5 Wrms into 4 Ohm) using AES17 (20kHz) filter

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.