

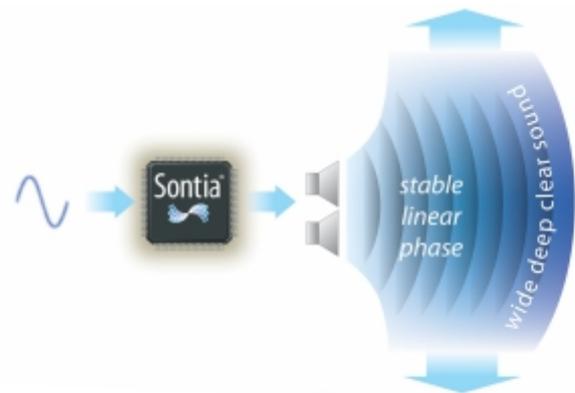


Sontia's ability to provide better quality audio whilst retaining form factor and the ability to reduce BOM has convinced customers that "Sontia SPT" will become their standard!

Sontia's SPT (Stable Phase Technology) solutions are a range of audiophile-grade sound technologies that dramatically deliver outstanding performance from any speaker in almost any sound product. The fresh and technically advanced approach taken by Sontia to solving common acoustic problems has produced stunning, superior results. With sonic excellence as a 'no-compromise' baseline, and building on techniques used in the highest performance studio recording systems, Sontia's multi-patented SPT redefines what is possible in sound products of any type at almost any price. Listeners widely agree that Sontia SPT makes a dramatic improvement, whatever the product.

Sontia SPT Key Benefits

- A Better, Crystal Clear, Natural, Life-like Sound
- A True Three-dimensional Audio Experience
- Unparalleled Deep Rich Smooth And Natural Bass
- A Far Broader Optimal Listening Area
- Makes Smaller Speakers Sound Much Larger
- Significantly Increases Perceived Product Value
- Can Simplify and Reduce Bill Of Materials
- Removes Cabinet Resonance And Artefacts
- Provides Distortion-free Listening At High Volumes
- Resolution Suitable For Audiophile Quality Products



THX have chosen Sontia as their only DSP partner to Provide an Enhanced Audio Experience across a Wider Selection of Consumer Electronics Devices.



"[with Sontia SPT turned on] the sound changed entirely, making it more than simply '2.0' sound...it performed beautifully...bass portrayed huge resonance; sound seemed like a live performance" ([review in EE Times](#))

SPT Speaker Optimisation

Conventional speaker 'correction' simply alters the frequency response. Sontia's SPT speaker optimisation employs patented algorithms to correct the phase, time and frequency response of the whole speaker product, including the enclosure, mounting position and destructive interference of sound waves between speaker drivers. Listeners agree that improvements are dramatic.

SPT Acoustic Imaging

Conventional speakers suffer from a small optimal listening area (or 'sweet spot'), possess poor sonic depth and produce sound that isn't life-like. Sontia's SPT Acoustic Imaging is a patented approach that employs novel otoacoustic and 'whole-body' acoustic modelling techniques to produce sound that is natural and spacious with a wide listening area.

SPT Linear-Phase Digital Cross-over

Conventional cross-overs suffer from a number of problems, including cancellation/phasing effects, poor frequency separation, poor phase/time matching, ringing, signal transient smearing, lobbing and beaming effects. Sontia's SPT Cross-over addresses these problems, achieving 4-8 times better frequency separation and virtually eliminating destructive interference between drivers. Results are free of nearly all distortions commonly associated with conventional cross-over designs

SPT Cabinet Resonance Control

SPT Cabinet Resonance Control removes enclosure resonance and rattle that typically affects audio products at higher listening volumes.

Sontia SPT Product Integration

Sontia's aim is to make stunning sound easy to incorporate; working with a number of platforms, some of which may already be included in your product; meaning that your costs to incorporate Sontia are usually limited to an NRE and software license.

All of which is backed by an ever expanding team of FAE and support engineers and a real time software tool, which enables the audio engineer to voice the final product.

SPT Dynamic Bass Enhancement

Sontia SPT bass enhancement is multi-faceted. Firstly, linear phase correction increases available bass energy by removing the cancellation effects of out-of-phase sound waves. Sontia also uses an advanced, patented, organic convolution method that reproduces 'lost' bass harmonics, adapting to the actual sound passing through the system in real-time. Additionally, Sontia's SPT LFX technique optimises bass for different volume settings, extending bass response at normal listening volumes. These approaches achieve astounding, deep, rich bass.

SPT Central Channel Generator

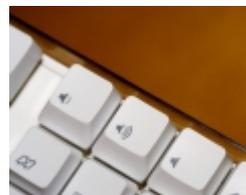
Sontia's SPT Central Speaker solution delivers improved sound through the central speaker in sound/speaker bars and other 3+ channel systems. Unlike traditional subtraction techniques, Sontia SPT Central Speaker is able to accurately isolate sounds that are common to left and right channels using sophisticated algorithms that are a part of Sontia's core SPT approach.

SPT Active Damper

It is well known that standard loudspeaker cones continue to move after the original sound signal has stopped, producing undesirable effects and distortions. Sontia's SPT Active Damper algorithm is a patented solution that removes this effect allowing the speaker to faithfully track the audio signal.

U-Q Voicing

U-Q Voicing is a very high quality, manufacturer configurable, multi-band digital EQ that allows Sontia SPT to be tuned to a preferred product 'voicing'.



Sontia (UK) Head office
2 Fornett Street
Sheffield
S4 7QD
UK

Tel: +44 (0)114 2787046

Sontia Audio Technologies Consulting (Shenzhen) Ltd
(Asia Pac head office)
Room 2209, Floor 22, Tower B,
Zhong-Shen Garden,
No. 2028 Cai-Tian Road
Futian District,
Shenzhen
518033, P.R. China

Additional offices and support in Japan and Korea

Email Addresses

General enquiries: contact@sontia.com
Careers enquiries: careers@sontia.com
Sales enquiries: sales@sontia.com
Press enquiries: pr@sontia.com
Technology and research enquiries: research@sontia.com

www.sontia.com