



ATS6151-BC5 SoundClear® Solution for Single-mic Speakerphones

Enabling Wideband Voice Communication

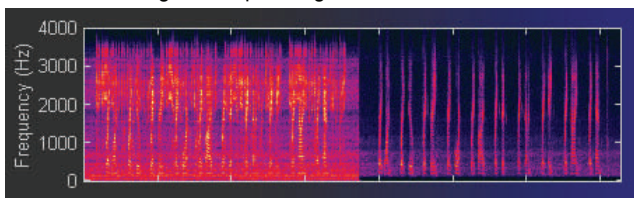
Superior Noise and Echo Cancellation with High Definition Voice Quality

ATS6151 brings the extended frequency range of wideband voice to the renowned SoundClear® ATS6x series of full-duplex noise and echo cancellation solutions. SoundClear wideband lifts the limitations of narrowband voice to deliver vastly improved speech quality that is both richer sounding and more intelligible. New high precision controls cut out more non-linear residual echo and unwanted background noise to deliver unsurpassed full duplex call experience. Combined with dynamic features including automatic volume control and level adjust, ATS6151 delivers superior call-to-call consistency and user experience over a wide range of usage conditions at both ends of the call.

Optimized for the CSR BlueCore5™ Multimedia Bluetooth chip, ATS6151's robust, patented DSP techniques are field proven in 50 million units worldwide. Acoustic brings together the superior SoundClear Technology, real-time tuning and diagnostics with the RAPID2™ tool, and the unparalleled SoundAdvice™ Audio Consulting Services to reduce development cost, risk, and time to market.

ATS6151 is available today enabling speakerphone products to deliver remarkably loud and clear wideband and traditional narrowband audio without the distraction of unwanted echo and noise.

Actual Recording of Tx Uplink Signal from Hands-free Kit



No Audio Processing

Unwanted Echo and Noise Removed with SoundClear ATS6151 Solution



CSR Partner

Acoustic Technologies is a member of the CSR eXtension Partner Program.



Key Features

- Fast-acting 17 dB Ambient Noise Cancellation
- Robust 45 dB Echo Cancellation
- Full-duplex, Echo Free Communication
- Wideband and Traditional Narrowband Audio
- Non-linear Residual Echo Suppressor
- 4-Filter Precision FlexEQ equalizer
- Natural Sounding, Distortion Free Speech
- Automatic Volume Control
- Non-linear Power Amplifier Maximizes Speaker Loudness and Minimizes Distortion
- Proven With Voice Powered Search Services Such as Bing-411
- Simple Yet Sophisticated Tuning with RAPID2™



Enabling the Highest Quality Communication in the Home or Car

ATS6151 SoundClear Wideband Bluetooth Speakerphone Solution



SoundClear® Technology

The SoundClear performance advantage is achieved through a combination of several patented techniques including adaptive filtering, voice activity detection, double talk detection, sophisticated call-mode processing, enhanced nonlinear processing, and spectrally matched background insertion.

Acoustic Technologies provides breakthrough technology to solve our customer's audio problems. We leverage our extensive patent portfolio and over 10 years of experience producing the highest voice quality solution. The ATS6151 is highly optimized for CSR BlueCore5 speakerphone designs.

SoundAdvice™ Audio Consulting Services

Acoustics' experienced software, hardware, system, and audio engineers utilize state-of-the-art audio equipment to assist with customer projects. Audio consulting includes test and measurement, electrical analysis, mechanical analysis and recommendations on transducers and plastics.

For complete product improvement, Acoustic prepares a comprehensive report citing the acoustic analysis results and detailed recommendations for achieving optimal sound quality of the end product. SoundAdvice audio consulting service helps customers get products to market quickly and with the highest quality audio performance.

RAPID2™ Tuning and Optimization

Acoustic Technologies offers RAPID2 (Real-time Audio Perfection and Integration Diagnostics), a PC-based tool that allows developers to easily, and in real-time, monitor and tune programmable parameters in the SoundClear software via a simple Graphical User Interface (GUI).

- Fast and easy tuning
- Intuitive block-diagram view
- System performance diagnostics
- Expandable via plug-ins

