



ATS6131-BC5 SoundClear® Solution for Single-mic Hands-free Car Kits

Enabling the Highest Quality Hands-Free Communication in the Car

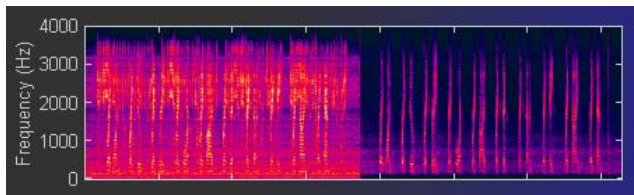
A New level of Noise Cancellation and Voice Quality

Based on the widely-deployed SoundClear® ATS6000 series architecture, the ATS6131 single-mic hands-free solution for portable in-car speakerphone is equipped with new high precision controls and FlexEQ™ equalizer to cut out more unwanted noise and deliver the purest voice quality. Optimally designed to deliver loud speaker volume without noise and echo, SoundClear software is world's highest performing DSP solution for CSR BC5-MM based in-car hands-free speakerphones. Combined with dynamic features including automatic volume control and level adjust, ATS6131 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 BC5-MM, ATS6131's robust, patented DSP techniques is field proven in over 30 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.

ATS6131 is available today enabling car kits to deliver remarkably loud and clear voice 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
ATS6130 Solution



Key Features

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



CSR Partner

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



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ATS6131 SoundClear 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 technology leadership targeted 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 ATS6131 is highly optimized for CSR BC5-MM hands-free car kit 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

