



ATS6340 SoundClear® Solution for Car Audio Systems

Enabling the Highest Quality Hands-Free Communication in the Car

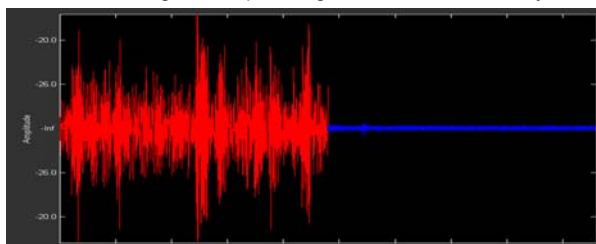
Best Echo and Noise Cancellation with Automatic Adaptive Control

ATS6340 is the latest full-duplex hands-free car audio solution in the SoundClear® family. Optimally designed to deliver loud speaker volume with noise and echo free speech, SoundClear software is the leading DSP solution for 1-mic and 2-mic hands-free applications. Combined with dynamic features including automatic volume control and level adjust, ATS6340 delivers superior call-to-call consistency and clean, natural voice quality over a wide range of operating conditions.

ATS6340 is based on robust, patented DSP techniques field proven in over 35 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.

ATS6340 is available today on BC5-MM, various ARM processors and TI DSPs enabling car audio systems to deliver remarkably loud and clear voice quality without the distraction of unwanted echo and noise.

Actual Recording of Tx Uplink Signal from Hands-free System



No Audio Processing

Unwanted Echo and Noise
Removed with SoundClear
ATS6340 Solution

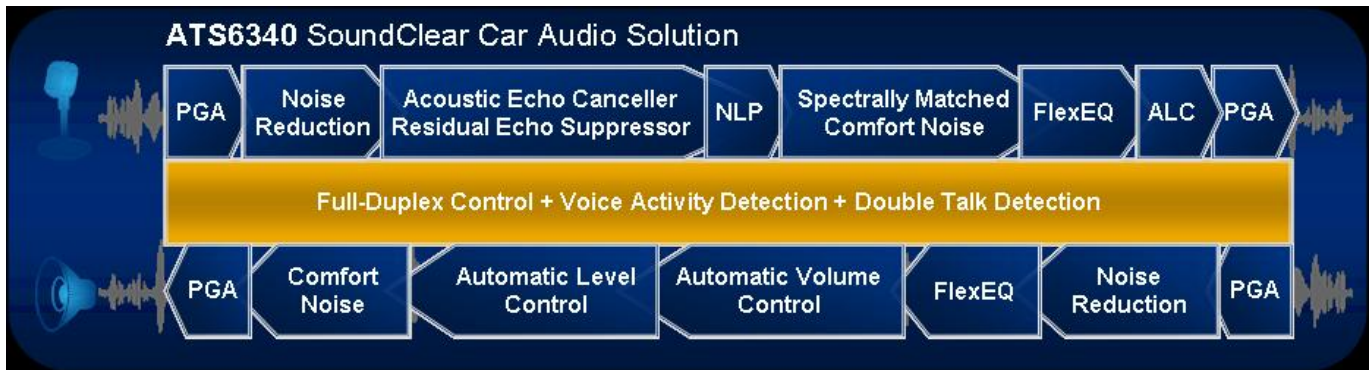


Key Features

- 24 dB Ambient Noise Cancellation
- Full-duplex, Echo Free Communication
- Fast Convergence, Robust Echo Canceller
- Natural Sounding, Distortion Free Speech
- Automatic Volume Control
- Ultimate Flexibility with FlexEQ Dynamic Equalization
- Smooth and Natural Conversation Transitions
- Proven With ASR and Voice Response Systems
- Simple Yet Sophisticated Tuning with RAPID™
- Flexible for Varying Car Audio Configurations



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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 is focused on providing technical leadership targeted at solving our customer's problems. We leverage our extensive patent portfolio and over 10 years of experience producing the highest voice quality solution. The ATS6340 is highly optimized for hands-free car audio systems.

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, recommendations on transducers, and on-site tuning.

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 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

