



ATS6040 SoundClear® Dual-Mic Solution For CSR BC5-MM Headsets

Enabling the Highest Quality Hands-Free Products

Breakthrough Noise Reduction for Bluetooth Headsets

ATS6040 is built upon the leading SoundClear® noise rendering technology, and is now enhanced with adapting equalization technology, Dynamic FlexEQ™. Providing almost endless capability to shape the sound quality without the distortion of alternative equalizer technologies, the FlexEQ now dynamically adjusts the frequency response to ambient conditions improving speech intelligibility in both the Rx and Tx paths.

InstantAdapt™ is the latest patent pending technology delivering lightning fast noise adaptation and increased noise reduction during extreme environments as found in loud restaurants, pubs, airports, or sporting arenas. Further enhancements include extreme precision processing to provide the cleanest speech and lowest noise floor.

ATS6040 dynamically adjusts to the user's environment and network conditions to deliver superior call-to-call consistency and the highest quality full-duplex performance on every call. Optimized for the CSR BC5-MM, ATS6040 is based on robust, patented DSP techniques field proven in over 35 million units with Tier 1 customers worldwide.



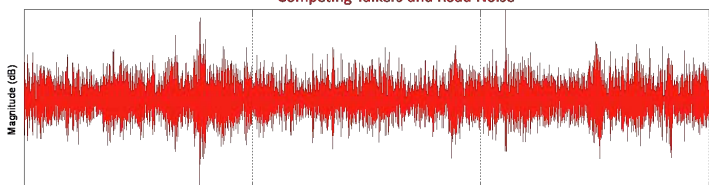
Functions and Features

The ATS6040 SoundClear solution utilizes two microphones to eliminate noise and achieve a remarkable sound quality.

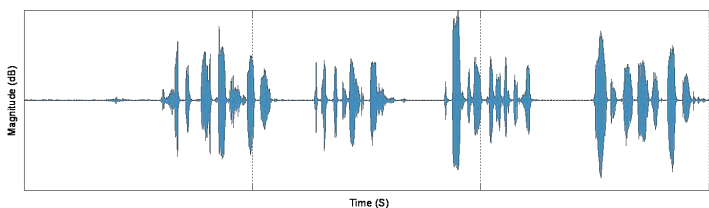
Key Features

- Dual Microphone Noise Field Rendering
- InstantAdapt™, Fast Adapting Noise Reduction
- Dynamically Adjusting FlexEQ™
- Automatic Level Control
- Natural Sounding, Distortion Free Speech
- No Microphone Calibration Required
- Full-duplex, Echo Free Operation
- Optimized for Minimal Power Dissipation
- Simple and Fast Tuning with RAPID2™ Tool

Ambient Noise + Speech
Competing Talkers and Road Noise



ATS6040 - SoundClear





Enabling the Highest Quality Hands-Free Products

ATS6040 SoundClear Bluetooth Headset 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 is focused on providing technical leadership targeted at solving our customer's problems. We leverage our extensive patent portfolio and 10 years of experience producing the highest voice quality solution. The ATS6040 is highly optimized for CSR based Bluetooth Headset 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



CSR Partner

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