

## SPiRiT Automatic 3G VT AEC

*Fully functional speech enhancement for your 3G handsets with video telephony within 24 hours or less!*

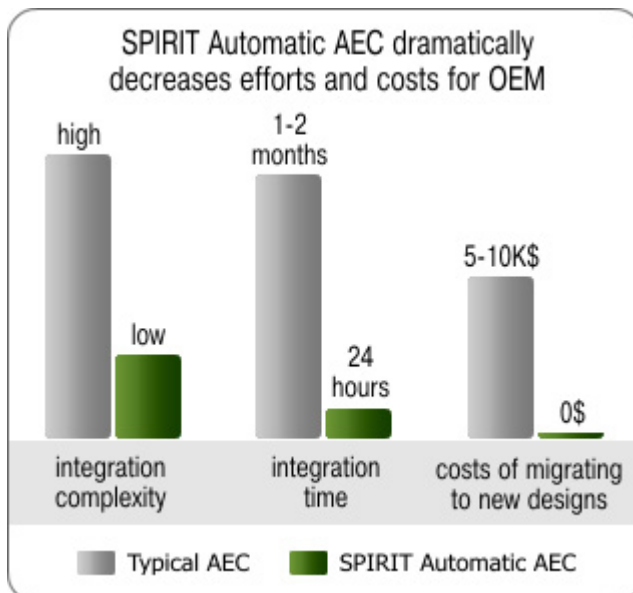
To successfully solve echo problem in mobile phones, smartphones and other handheld devices SPiRiT offers Automatic 3G VT Acoustic Echo Canceller. The solution is aimed to eliminate acoustic echo in mobile communications over 3G networks and to provide full duplex conversation in video telephony applications.

SPiRiT Automatic 3G VT AEC is a complete solution, including:

- Full-duplex Acoustic Echo Canceller to cancel acoustic feedback between loudspeaker and microphone
- Noise Suppression to filter out noises mixed with user's voice, and to ensure highly intelligible speech quality.
- Automatic Gain Control and Voice Activity Detection to adjust microphone levels for effective acoustic echo cancellation
- Comfort Noise Generation to avoid disconnected line effect

Automatic 3G VT AEC is supplied with easy-to-use tools package that simplifies the whole process of audio driver programming. The supplied utilities automatically validate the every stage of driver creation, helping to save resources required for the Windows Mobile driver programming.

AEC configuration has never being easier: after the driver programming high-quality AEC is automatically set up in less than 24 hours, with zero effort required from the developers. The same Automatic 3G VT AEC can be later used for new product designs.



With SPiRiT Automatic 3G VT AEC mobile OEMs can significantly reduce time-to-market of their new products and achieve unprecedented voice quality in video telephony applications. For mobile VoIP communication SPiRiT Automatic 3G VT AEC can be easily upgraded to TeamSpirit® Voice&Video Engine Mobile.

### Benefits

- Automated high-quality AEC configuration within 24 hours
- Automatic validation of the customer's audio driver with AEC
- Traditionally high voice quality
- No dependence on 3rd party engineers
- Reuse of the deployment experience for new product launches
- Instant AEC adaptation to new handsets' designs
- Reduced time-to-market

### Key Features

- Secures full-duplex, echo-free voice in video telephony applications
- Eliminates noises
- Adjusts speaker and microphone levels
- Suppresses residual echo and generates comfort noise
- Prevents howling

### Applications

- 3G phones with video telephony support

### Availability

- All ARM9 and ARM9E based processors (XScale, OMAP and others)
- TI DaVinci
- TI C64

The comprehensive delivery package of SPIRIT Automatic 3G VT AEC includes:

- Full-duplex Acoustic Echo Canceller
- Automated utilities for Windows Mobile driver integrity validation
- The “one-button” utility for high-quality automatic AEC configuration
- Step-by-step implementation instructions for easy integration into any 3G mobile phone’s software
- Detailed description of additional requirements for Windows Mobile driver development (complements Microsoft recommendations)

## Features and Specifications

<b>Acoustic Echo Cancellation</b>	<ul style="list-style-type: none"> <li>• Operates in full duplex mode, consumes 40 MIPS*</li> </ul>
<b>Noise Suppressor</b>	<ul style="list-style-type: none"> <li>• Tightly integrated with AEC to provide superior voice quality</li> </ul>
<b>Automatic Gain Control and Voice Activity Detection</b>	<ul style="list-style-type: none"> <li>• Adjusts speaker and microphone gains</li> </ul>
<b>Comfort Noise Generation</b>	<ul style="list-style-type: none"> <li>• Helps to avoid disconnected line effect</li> </ul>
<b>Supported OS</b>	<ul style="list-style-type: none"> <li>• Windows Mobile 5.0</li> <li>• Windows Mobile 6.0</li> <li>• Windows Mobile 6.1</li> <li>• Windows Mobile 5.0 SmartPhone Edition</li> <li>• Windows PocketPC 2003</li> <li>• Linux</li> </ul>

\* ARM9E, typical mode for mobile devices

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