

Adaptive Digital Technologies, Inc.

VoIP Engine for Android/ARM Driving Next Gen Mobile IP Voice Applications

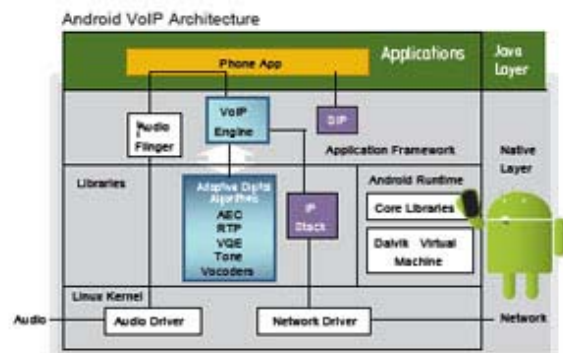
Compatible TI DSP: OMAP35x

Adaptive Digital's VoIP Engine for the Android/ARM is a software package that handles the processing needed to transform PCM samples to VoIP packets and VoIP packets to PCM samples. In other words, it provides all the voice processing necessary to VoIP-enable an Android/ARM application.

The core of VoIP Engine is an Android native-layer application that includes a complete suite of Adaptive Digital's field-proven telephony, VoIP, and voice quality enhancement algorithms that enable developers to create toll-quality next generation mobile applications for Android/ARM users.

Today's mobile phone applications include an extraordinary amount of functionality. In the Android space in particular, writing software at the native layer is difficult not only due to the complexity of Android but also due to the anarchistic nature of open-source software in general. The best-case scenario for a developer is therefore to work at the Java layer. But for performance reasons, much functionality needs to run at the native layer.

To make mobile phone application development manageable, developers have many development kits at their fingertips to handle the native layer complexity. Adaptive Digital's VoIP



FEATURES & BENEFITS

- By leveraging VoIP Engine, developers can focus on the functionality of the end application without dealing with the complexities of voice processing at the native layer.
- Enables VoIP application development strictly at the Java layer.
- Adaptive Digital's VoIP Engine provides all the voice processing necessary to VoIP-enable an Android/ ARM or vertical device mobile application.
- Adaptive Digital provides customers with expertise in integration and development to enable differentiation of their next gen mobile application.
- Adaptive Digital brings 16 years of voice/VoIP technology experience to the mobile digital device market.

Engine brings the necessary VoIP functionality to the native layer. All the developer needs to do is access the VoIP engine using a simple API, and package the supplied VoIP Engine native layer application with the end user Android application.

- VoIP Engine is supplied with a sample Java application that interfaces to the VoIP Engine native application.
- The sample application uses the VoIP Engine API, which in turn uses the Java Native Interface (JNI), to setup an RTP/IP to RTP/IP VoIP connection.
- Android developers can incorporate the Java sample code into more complete VoIP-enabled Android applications.
- **Included Software**
Voice Quality: AEC, AGC;
Network Optimization: Adaptive Jitter Buffer, PLC (G.711 Appendix 1); Compression: G.711 Appendix 2; Protocol: RTP; Telephony: Tone Generation
- **Optional Software Features:**
Voice Quality Enhancement: Noise Reduction; Voice codecs: G.726, G.729 AB, G.722 (wideband), AMR WB G.722.2 (Wideband), AMR NB (Narrowband), EVRC-B, MELP; Protocol stacks: SIP

AVAILABILITY

Available now

APPLICATION AREAS

Broadband, Communications & Telecom, Consumer Electronics, Industrial, Medical, Military, Security, Wireless



Contact Information



Adaptive Digital Technologies, Inc.

*525 Plymouth Meeting
Suite 316
Plymouth Meeting, PA, 19462
USA*

tele: 610.825.0182 x120
fax: 610.825.7616
sales@adaptivedigital.com
www.adaptivedigital.com

All Materials on this site are copyright ©2010 Extension Media