



**imagine**  
TECHNOLOGY, LLC™

# Texas Instruments DSP Solutions

## Audio Solutions

<b>MP3 &amp; MP3 PRO Encode and Decode</b>
<b>MPEG2/4 AAC LC Encode and Decode</b>
<b>WMA &amp; WMA PRO Encode and Decode</b>
<b>AC-3 Consumer Encode/Decode</b>
<b>Multi-channel Optimizations</b>
<b>Volume Control &amp; Equalization</b>
<b>Framework &amp; Codec Interfaces</b>
<b>Sample Rate Conversion</b>

## Wireless Modem Solutions

<b>V.22, BPSK, QPSK, GMSK</b>
<b>Forward Error Correction</b>
<b>Encryption</b>
<b>Framework</b>
<b>Codec Interfaces</b>

## VoIP Solutions

<b>G.711, G.723.1, G.726, G.729AB</b>
<b>EST™ Acoustic Echo Cancellor</b>
<b>DTMF, VAD, CNG, AGC, CPD</b>
<b>Voice Extraction Technology</b>
<b>Encryption</b>
<b>TDM Interface</b>
<b>Framework</b>

## Speakerphone Solutions

<b>EST™ Acoustic Echo Cancellor</b>
<b>DTMF, VAD, CNG, AGC, CPD, G.165, G.168-2000 and Caller ID</b>
<b>Voice Extraction Technology</b>
<b>Volume Control</b>
<b>Equalization</b>
<b>Framework</b>
<b>Codec Interfaces</b>

Available for TMS320C5000™, TMS320C6000™ and OMAP™

**Powered by Imagination**

TI Third Party Network  
Member



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# Texas Instruments DSP Solutions

As an official Third Party Vendor of Texas Instruments, we offer tested and approved algorithms for a wide range of DSP based processors, which are eXpressDSP™ Real-Time Software Technology compliant. Look for our company on the official website for approved DSP Third Party Vendors at [www.dspvillage.ti.com](http://www.dspvillage.ti.com).

eXpressDSP® Compliant



## Texas Instruments TMS320™ family algorithms

Audio Algorithms
MPEG-2/4 AAC LC Encode/Decode
MP3 Audio Encode/Decode
WMA Encode † and Decode
WMA PRO Encode/Decode †
MP3 PRO Audio Encode/Decode †
AC-3 Consumer Encode/Decode †

† Available upon request

Telephony Algorithms
Voice Extraction Technology
Call Progress
DTMF Encoder/Decoder
Caller ID
G.711 Vocoder
G.723.1 Vocoder
G.726 Vocoder
G.729AB Vocoder
CNG Comfort Noise Generation
VAD Voice Activity Detection
AGC Automatic Gain Control

Encryption Algorithms
Triple DES Encryption
AES Encryption
DES Encryption
H.234 Authentication/Encryption
H.235 Encryption
MD5 Encryption
HMAC

Modem Algorithms
BPSK Modem
Convolutional Coder
GMSK Modem
QPSK Modem
ITU V.22 Modem

Echo Canceller Algorithms
Acoustic Echo Canceller (EST™)
G.165 Echo Canceller
G.168-2000 Echo Canceller

## Imagine supports TI C54x, C55x, C62x, C64x, C67x & OMAP

EST™ Echo Suppression Technology is a proprietary form of acoustic echo cancellation from Imagine Technology

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