



VOCODERS

eXpressDSP™-Compliant Third-Party Algorithms

Updated May 2004

Compliant Algorithm	Generation	Third-Party Vendor	Compliant Algorithm	Generation	Third-Party Vendor
1200-BPS Decoder	C54x	SPIRIT CORP.	G.722 Decoder	C64x	Ittiam Systems
1200-BPS Encoder	C54x	SPIRIT CORP.	G.722 Encoder	C62x	RadiSys Corp.
1200-BPS Vocoder	C55x	SPIRIT CORP.	G.722 Encoder	C62x	Signals + Software
2400-BPS Decoder	C54x	SPIRIT CORP.	G.722 Encoder	C64x	Ittiam Systems
2400-BPS Encoder	C54x	SPIRIT CORP.	G.722.1 Decoder	C54x	SIAL
2400-BPS Vocoder	C55x	SPIRIT CORP.	G.722.1 Decoder	C64x	Ittiam Systems
4800-BPS Vocoder	C54x	SPIRIT CORP.	G.722.1 Encoder	C54x	SIAL
4800-BPS Vocoder	C55x	SPIRIT CORP.	G.722.1 Encoder	C64x	Ittiam Systems
6000-BPS Vocoder	C54x	SPIRIT CORP.	G.722.2 Decoder	C62x	Pivot Signal Processing
6000-BPS Vocoder	C55x	SPIRIT CORP.	G.723.1	C54x	Encore Software
Enhanced G.711	C54x	Global IP Sound AB	G.723.1	C54x	GAO Research Inc.
ESAC4 Decoder	C55x	Cybernetics Infotech	G.723.1	C62x	Encore Software
ESAC4 Encoder	C55x	Cybernetics Infotech	G.723.1 Decoder	C54x	SPIRIT CORP.
ESAC7 Decoder	C55x	Cybernetics Infotech	G.723.1 Decoder	C55x	SPIRIT CORP.
ESAC7 Encoder	C55x	Cybernetics Infotech	G.723.1 Decoder	C62x	RadiSys Corp.
G.168	C62x	Signals + Software	G.723.1 Decoder	C62x	Signals + Software
G.711 Decoder	C54x	Commetrex	G.723.1 Decoder	C62x	SPIRIT CORP.
G.711 Decoder	C54x	Ingenient Technologies	G.723.1 Encoder	C54x	SPIRIT CORP.
G.711 Decoder	C54x	Signals + Software	G.723.1 Encoder	C55x	SPIRIT CORP.
G.711 Decoder	C54x	SPIRIT CORP.	G.723.1 Encoder	C62x	RadiSys Corp.
G.711 Decoder	C55x	Ingenient Technologies	G.723.1 Encoder	C62x	Signals + Software
G.711 Decoder	C55x	SPIRIT CORP.	G.723.1 Encoder	C62x	SPIRIT CORP.
G.711 Decoder	C62x	Commetrex	G.723.1 Encoder/Decoder	C54x	Adaptive Digital Technologies
G.711 Decoder	C62x	Ingenient Technologies	G.723.1 Encoder/Decoder	C54x	GAO Research Inc.
G.711 Decoder	C62x	Motorola Computer Group	G.723A Decoder	C54x	D2 Technologies
G.711 Decoder	C62x	RadiSys Corp.	G.723A Encoder	C54x	D2 Technologies
G.711 Decoder	C62x	Signals + Software	G.726	C54x	Encore Software
G.711 Decoder	C64x	Ittiam Systems	G.726	C62x	Encore Software
G.711 Encoder	C54x	Commetrex	G.726 A-Law ADPCM Decoder	C62x	RadiSys Corp.
G.711 Encoder	C54x	Ingenient Technologies	G.726 A-Law ADPCM Encoder	C62x	RadiSys Corp.
G.711 Encoder	C54x	Signals + Software	G.726 ADPCM Decoder/Encoder	C54x	SPIRIT CORP.
G.711 Encoder	C54x	SPIRIT CORP.	G.726 ADPCM Decoder/Encoder	C55x	SPIRIT CORP.
G.711 Encoder	C55x	Ingenient Technologies	G.726 Decoder	C54x	Commetrex
G.711 Encoder	C55x	SPIRIT CORP.	G.726 Decoder	C54x	D2 Technologies
G.711 Encoder	C62x	Commetrex	G.726 Decoder	C54x	National Instr./Hyperception
G.711 Encoder	C62x	Ingenient Technologies	G.726 Decoder	C54x	Ingenient Technologies
G.711 Encoder	C62x	Motorola Computer Group	G.726 Decoder	C54x	Signals + Software
G.711 Encoder	C62x	RadiSys Corp.	G.726 Decoder	C54x	SPIRIT CORP.
G.711 Encoder	C62x	Signals + Software	G.726 Decoder	C55x	DSP Wizard
G.711 Encoder	C64x	Ittiam Systems	G.726 Decoder	C55x	SPIRIT CORP.
G.711 PLC	C54x	SPIRIT CORP.	G.726 Decoder	C62x	Commetrex
G.711 PLC	C55x	SPIRIT CORP.	G.726 Decoder	C62x	National Instr./Hyperception
G.722 Decoder	C62x	RadiSys Corp.	G.726 Decoder	C62x	Ingenient Technologies
G.722 Decoder	C62x	Signals + Software	G.726 Decoder	C62x	Ingenient Technologies



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G.726 Decoder	C62x	Signals + Software	G.729 Encoder	C62x	Signals + Software
G.726 Decoder	C64x	Ittiam Systems	G.729 Encoder	C62x	SIAL
G.726 Decoder (Low MIPS)	C54x	Adaptive Digital Technologies	G.729 Encoder	C62x	SURF Communication Solns.
G.726 Encoder	C54x	Commetrex	G.729 Encoder/Decoder	C54x	Adaptive Digital Technologies
G.726 Encoder	C54x	D2 Technologies	G.729A	C54x	Encore Software
G.726 Encoder	C54x	National Instru./Hyperception	G.729A Decoder	C54x	D2 Technologies
G.726 Encoder	C54x	Ingenient Technologies	G.729A Decoder	C54x	Signals + Software
G.726 Encoder	C54x	Signals + Software	G.729A Decoder	C55x	DSP Wizard
G.726 Encoder	C54x	SPIRIT CORP.	G.729A Decoder	C62x	RadiSys Corp.
G.726 Encoder	C55x	DSP Wizard	G.729A Decoder	C62x	Signals + Software
G.726 Encoder	C55x	SPIRIT CORP.	G.729A Encoder	C54x	Signals + Software
G.726 Encoder	C62x	Commetrex	G.729A Encoder	C55x	DSP Wizard
G.726 Encoder	C62x	National Instru./Hyperception	G.729A Encoder	C62x	RadiSys Corp.
G.726 Encoder	C62x	Ingenient Technologies	G.729A Encoder	C62x	Signals + Software
G.726 Encoder	C62x	Ingenient Technologies	G.729A Encoder/Decoder	C54x	Adaptive Digital Technologies
G.726 Encoder	C62x	Signals + Software	G.729A Encoder/Decoder	C54x	GAO Research Inc.
G.726 Encoder	C64x	Ittiam Systems	G.729AB	C62x	CuTe Solution
G.726 Encoder (Low MIPS)	C54x	Adaptive Digital Technologies	G.729AB Decoder	C54x	D2 Technologies
G.726 Encoder/Decoder (Low Memory)	C54x	Adaptive Digital Technologies	G.729AB Decoder	C54x	HelloSoft
G.726 U-Law ADPCM Decoder	C62x	RadiSys Corp.	G.729AB Decoder	C54x	Signals + Software
G.726 U-Law ADPCM Encoder	C62x	RadiSys Corp.	G.729AB Decoder	C55x	DSP Wizard
G.726/G.711	C55x	SPIRIT CORP.	G.729AB Decoder	C55x	HelloSoft
G.728	C62x	Encore Software	G.729AB Decoder	C62x	RadiSys Corp.
G.728 Decoder	C54x	Signals + Software	G.729AB Decoder	C62x	Signals + Software
G.728 Decoder	C62x	Signals + Software	G.729AB Encoder	C54x	D2 Technologies
G.728 Decoder	C64x	Ittiam Systems	G.729AB Encoder	C54x	HelloSoft
G.728 Encoder	C54x	Signals + Software	G.729AB Encoder	C54x	Signals + Software
G.728 Encoder	C62x	Signals + Software	G.729AB Encoder	C55x	DSP Wizard
G.728 Encoder	C64x	Ittiam Systems	G.729AB Encoder	C55x	HelloSoft
C.729	C55x	Wipro	G.729AB Encoder	C62x	RadiSys Corp.
G.729	C62x	Encore Software	G.729AB Encoder	C62x	Signals + Software
G.729 Decoder	C54x	Signals + Software	G.729AB Encoder/Decoder	C54x	Adaptive Digital Technologies
G.729 Decoder	C54x	SPIRIT CORP.	G.729AB Encoder/Decoder	C54x	SPIRIT CORP.
G.729 Decoder	C55x	DSP Wizard	G.729AB Encoder/Decoder	C55x	SPIRIT CORP.
G.729 Decoder	C55x	SPIRIT CORP.	G.729B Decoder	C54x	D2 Technologies
G.729 Decoder	C62x	RadiSys Corp.	G.729B Decoder	C54x	Signals + Software
G.729 Decoder	C62x	Signals + Software	G.729B Decoder	C55x	DSP Wizard
G.729 Decoder	C62x	SIAL	G.729B Decoder	C62x	Signals + Software
G.729 Decoder	C62x	SURF Communication Solns.	G.729E Encoder	C54x	D2 Technologies
G.729 Encoder	C54x	Signals + Software	G.729B Encoder	C54x	Signals + Software
G.729 Encoder	C54x	SPIRIT CORP.	G.729B Encoder	C55x	DSP Wizard
G.729 Encoder	C55x	DSP Wizard	G.729B Encoder	C62x	Signals + Software
G.729 Encoder	C55x	SPIRIT CORP.	G.729B Encoder/Decoder	C54x	Adaptive Digital Technologies
G.729 Encoder	C62x	RadiSys Corp.	G.729E Decoder	C54x	D2 Technologies



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G.729E Encoder	C54x	D2 Technologies
G723.1 Decoder	C62x	SURF Communication Solns.
G723.1 Encoder	C62x	SURF Communication Solns.
IPCM Wideband	C54x	Global IP Sound AB

Compliant Algorithm	Generation	Third-Party Vendor
Voice Activity Detector	C54x	Ingenient Technologies
Voice Activity Detector	C62x	Ingenient Technologies
Voice Activity Detector	C64x	Ingenient Technologies



Complete Listing of eXpressDSP™-Compliant Third-Party Algorithms

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Third Party	3P Website	TI DSP Device			Application										
		C2000™	C5000™	C6000™	Audio	DMC	Fax	Protocol Stacks	Security	Speech	Telephony	VB Modems	Video & Imaging	Vocoders	Wireless
Acoustic Technologies, Inc.	www.acoustictech.com	X		X							X				
Adaptive Digital Technologies, Inc.	www.adt-inc.com		X								X			X	
Advanced Recognition Technologies, Inc.	www.artcomp.com		X							X					
Alango	www.alango.com/		X		X										
Aliph Com	www.aliph.com		X		X										
ATEME	www.ateme.fr		X	X	X								X		
Bayer DSP	www.dsp-bayer.com		X					X			X				X
Clarity, LLC	www.clarityco.com		X							X					
Commetrex Corp.	www.commetrex.com		X	X				X			X			X	
Creative DSP Solutions, Inc.	www.creativedsp.com		X		X										
CuTe Solutions	www.cutesolinc.com/			X	X										
Cybernetics Infotech	www.cybit.com		X											X	
D2 Technologies, Inc.	www.d2tech.com		X								X			X	
D+R Elektronika B.V.	www.d-r.nl			X	X										
DACS Software Pvt. Ltd.	www.dacsindia.com		X								X				
Dilithium Networks	www.dilithiumnetworks.com		X	X							X				
DSP Wizard	www.dspwizard.com		X											X	
DSPecialists GmbH	www.dspecialists.de		X	X	X										
e-Infochips, Inc.	www.einfochips.com			X	X										
easytools s.l.	www.easytools.es		X						X						
Electronic Design Associates, Inc.	www.useda.com		X		X										
Emuzed, Inc.	www.emuzed.com		X	X									X		X
Encore Software Ltd.	www.ncorettech.com		X	X										X	
Enounce, Inc.	www.enounce.com		X		X										
eSecurium	www.esecurium.com		X						X						
Ethentica by Security First Corp.	www.ethentica.com		X						X				X		
Fonix Corp.	www.fonix.com		X							X					
Fraunhofer IIS	www.iis.fhg.de			X	X										
GAO Research, Inc.	www.gaoresearch.com	X							X	X	X		X		
Global IP Sound AB	www.globalipsound.com	X												X	
HelloSoft, Inc.	www.hellosoft.com		X								X			X	X
IdenCom	www.idencom.com/			X					X				X		
IdentAlink	www.identalink.de/			X					X				X		
ILLICO	www.illico.com		X	X				X			X				
Ingenient Technologies, Inc.	www.ingenient.com		X	X	X				X	X	X		X	X	
Ittiam Systems Private Limited	www.ittiam.com		X	X	X					X			X	X	



Complete Listing of eXpressDSP™-Compliant Third-Party Plug-Ins

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eXpressDSP-Compliant Plug-Ins Available Today Include:

Name	Contact	Stage of the Development Cycle				TI DSP Platform		
		Application Design	Code & Build	Debug	Analyze & Tune	C6000™	C5000™	C2000™
Borland Corporation CodeWright	www.borland.com		X			X	X	
Elanix SystemView's Real-Time DSP Architect	www.elanix.com	X	X			X	X	
National Instruments / Hyperception, Inc. eXpressDSP™ Component Wizard	www.ni.com	X				X	X	X
LabView DSP Test Integration Toolkit for TI DSP		X		X	X	X	X	X
Visual Application Builder		X	X		X	X	X	X
Pentek, Inc. SwiftNet Debug Manager	www.pentek.com	X				X		
SwiftNet Project Manager		X				X		
Rational Software Corporation Rational Test Real-Time Plug-In	www.rational.com			X	X	X		
Technosoft Control Panel Global Variable Visualizer for Digital Motor Controllers (DMCs)	www.technosoft.ch				X			X
Graphical I/O Registers Viewer for DMCs					X			X
Data Logger Tool for DMCs					X			X
Reference Generator for Motion Reference for DMCs				X	X			X
The MathWorks, Inc. Filter Design Toolbox	www.mathworks.com	X	X			X	X	X
MATLAB® Link for Code Composer Studio (CCStudio) IDE			X	X	X	X	X	X
SIMULINK® Embedded Target for C6000™ DSP Platform		X	X	X	X	X		
Vector Software, Inc. VectorCAST for CCStudio	www.vectors.com			X		X	X	X
Visual Solutions Incorporated VisSim™-CCStudio Plug-In	www.vissim.com	X	X			X		X

X – supported